

FIG. 1

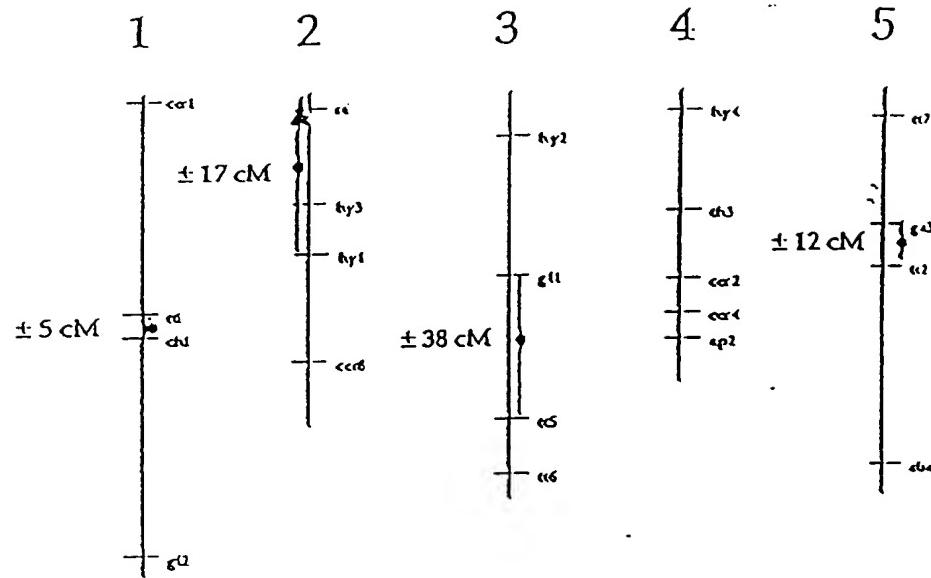


FIG. 2

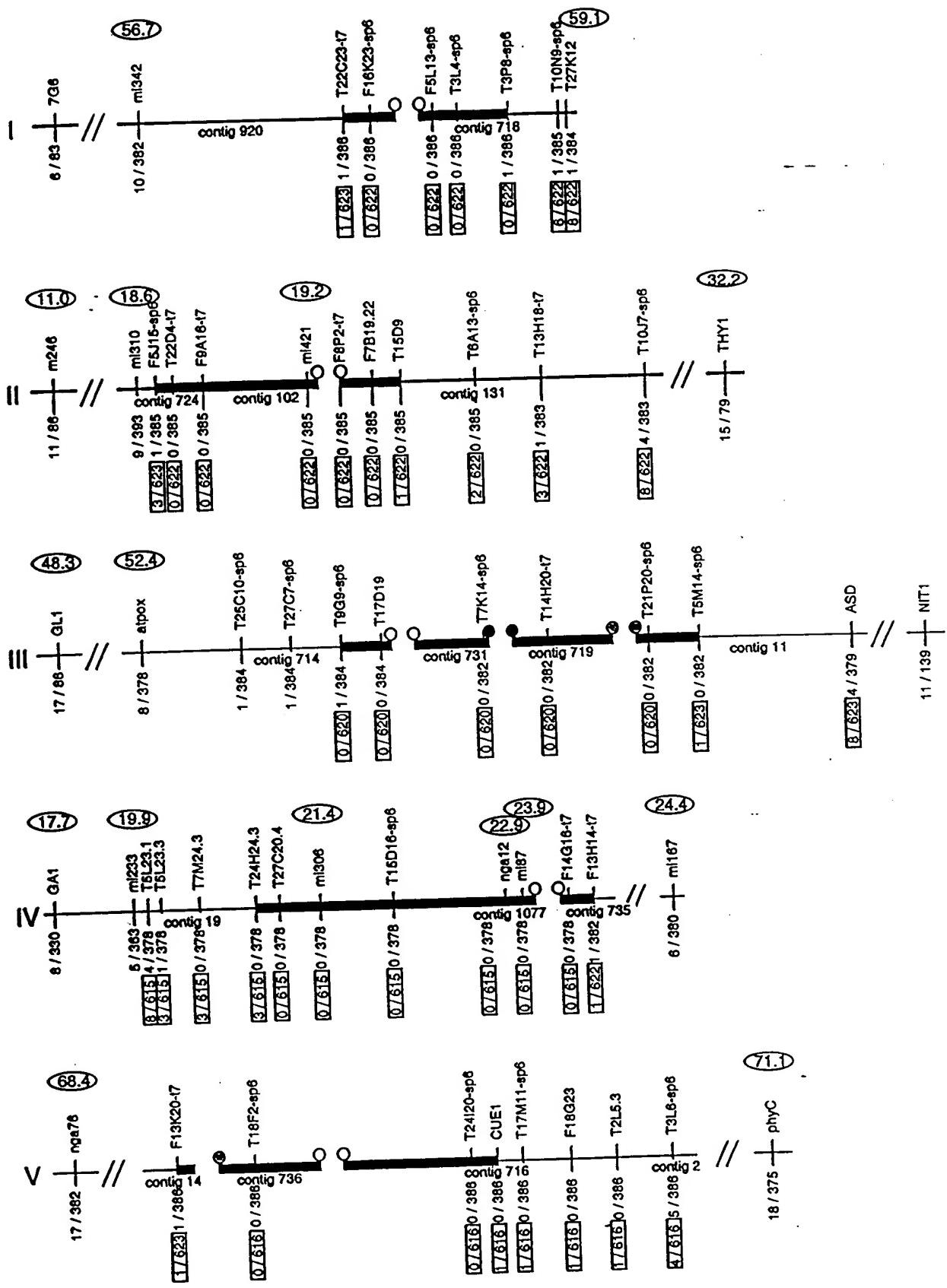


FIG. 3

	A	B	C	D
1	T1-1	PLA 391	tetrad seed stock	
2	T1-2	PLA 392	tetrad seed stock	
3	T1-3	PLA 393	tetrad seed stock	
4	T1-4	PLA 394	tetrad seed stock	
5				
6	T2-1	PLA 395	tetrad seed stock	
7	T2-2	PLA 396	tetrad seed stock	
8	T2-3	PLA 397	tetrad seed stock	
9	T2-4	PLA 398	tetrad seed stock	
10				
11	T3-1	PLA 399	tetrad seed stock	
12	T3-2	PLA 400	tetrad seed stock	
13	T3-3	PLA 401	tetrad seed stock	
14	T3-4	PLA 402	tetrad seed stock	
15				
16	T4-1	PLA 403	tetrad seed stock	
17	T4-2	PLA 404	tetrad seed stock	
18	T4-3	PLA 405	tetrad seed stock	
19	T4-4	PLA 406	tetrad seed stock	
20				
21	TS-1	PLA 407	tetrad seed stock	
22	TS-2	PLA 408	tetrad seed stock	
23	TS-3	PLA 409	tetrad seed stock	
24	TS-4	PLA 410	tetrad seed stock	
25				
26	T6-1	PLA 411	tetrad seed stock	
27	T6-2	PLA 412	tetrad seed stock	
28	T6-3	PLA 413	tetrad seed stock	
29	T6-4	PLA 414	tetrad seed stock	
30				
31	T7-1	PLA 415	tetrad seed stock	
32	T7-2	PLA 416	tetrad seed stock	
33	T7-3	PLA 417	tetrad seed stock	
34	T7-4	PLA 418	tetrad seed stock	
35				
36	T8-1	PLA 419	tetrad seed stock	
37	T8-2	PLA 420	tetrad seed stock	
38	T8-3	PLA 421	tetrad seed stock	
39				
40	T10-1	PLA 422	tetrad seed stock	
41	T10-2	PLA 423	tetrad seed stock	
42	T10-3	PLA 424	tetrad seed stock	
43				
44	T11-1	PLA 425	tetrad seed stock	

FIG. 4

		B	C	
45	T11-2	PLA 426	tetrad seed stock	
46	T11-3	PLA 427	tetrad seed stock	
47				
48	T12-1	PLA 428	tetrad seed stock	
49	T12-2	PLA 429	tetrad seed stock	
50	T12-3	PLA 430	tetrad seed stock	
51				
52	T13-1	PLA 431	tetrad seed stock	
53	T13-2	PLA 432	tetrad seed stock	
54	T13-3	PLA 433	tetrad seed stock	
55				
56	T14-1	PLA 434	tetrad seed stock	
57	T14-2	PLA 435	tetrad seed stock	
58	T14-3	PLA 436	tetrad seed stock	
59				
60	T18-1	PLA 437	tetrad seed stock	
61	T18-2	PLA 438	tetrad seed stock	
62	T18-3	PLA 439	tetrad seed stock	
63				
64	T20-1	PLA 440	tetrad seed stock	
65	T20-2	PLA 441	tetrad seed stock	
66	T20-3	PLA 442	tetrad seed stock	
67				
68	T27-1	PLA 443	tetrad seed stock	
69	T27-2	PLA 444	tetrad seed stock	
70	T27-3	PLA 445	tetrad seed stock	
71				
72	T28-1	PLA 446	tetrad seed stock	
73	T28-2	PLA 447	tetrad seed stock	
74	T28-3	PLA 448	tetrad seed stock	
75				
76	T29-1	PLA 449	tetrad seed stock	
77	T29-2	PLA 450	tetrad seed stock	
78	T29-3	PLA 451	tetrad seed stock	
79				
80	T30-1	PLA 452	tetrad seed stock	
81	T30-2	PLA 453	tetrad seed stock	
82	T30-3	PLA 454	tetrad seed stock	
83	T30-4	PLA 455	tetrad seed stock	
84				
85	T31-1	PLA 456	tetrad seed stock	
86	T31-2	PLA 457	tetrad seed stock	
87	T31-3	PLA 458	tetrad seed stock	
88				

FIG. 4 (cont'd)

		B	C	D
89	T32-1	PLA 459	tetrad seed stock	
90	T32-2	PLA 460	tetrad seed stock	
91	T32-3	PLA 461	tetrad seed stock	
92	T32-4	PLA 462	tetrad seed stock	
93				
94	T33-1	PLA 463	tetrad seed stock	
95	T33-2	PLA 464	tetrad seed stock	
96	T33-3	PLA 465	tetrad seed stock	
97				
98	T34-1	PLA 466	tetrad seed stock	
99	T34-2	PLA 467	tetrad seed stock	
100	T34-3	PLA 468	tetrad seed stock	
101	T34-4	PLA 469	tetrad seed stock	
102				
103	T35-1	PLA 470	tetrad seed stock	
104	T35-2	PLA 471	tetrad seed stock	
105	T35-3	PLA 472	tetrad seed stock	
106	T35-4	PLA 473	tetrad seed stock	
107				
108	T36-1	PLA 474	tetrad seed stock	
109	T36-2	PLA 475	tetrad seed stock	
110	T36-3	PLA 476	tetrad seed stock	
111	T36-4	PLA 477	tetrad seed stock	
112				
113	T37-1	PLA 478	tetrad seed stock	
114	T37-2	PLA 479	tetrad seed stock	
115	T37-3	PLA 480	tetrad seed stock	
116	T37-4	PLA 481	tetrad seed stock	
117				
118	T38-1	PLA 482	tetrad seed stock	
119	T38-2	PLA 483	tetrad seed stock	
120	T38-3	PLA 484	tetrad seed stock	
121	T38-4	PLA 485	tetrad seed stock	
122				
123	T39-1	PLA 486	tetrad seed stock	
124	T39-2	PLA 487	tetrad seed stock	
125	T39-3	PLA 488	tetrad seed stock	
126				
127	T40-1	PLA 489	tetrad seed stock	
128	T40-2	PLA 490	tetrad seed stock	
129	T40-3	PLA 491	tetrad seed stock	
130				
131	T41-1	PLA 492	tetrad seed stock	
132	T41-2	PLA 493	tetrad seed stock	

FIG. 4 (cont'd)

		B	C	D
133	T41-3	PLA 494	tetrad seed stock	
134	T41-4	PLA 495	tetrad seed stock	
135				
136	T42-1	PLA 496	tetrad seed stock	
137	T42-2	PLA 497	tetrad seed stock	
138	T42-3	PLA 498	tetrad seed stock	
139				
140	T43-1	PLA 499	tetrad seed stock	
141	T43-2	PLA 500	tetrad seed stock	
142	T43-3	PLA 501	tetrad seed stock	
143				
144	T44-1	PLA 502	tetrad seed stock	
145	T44-2	PLA 503	tetrad seed stock	
146	T44-3	PLA 504	tetrad seed stock	
147	T44-4	PLA 505	tetrad seed stock	
148				
149	T45-1	PLA 506	tetrad seed stock	
150	T45-2	PLA 507	tetrad seed stock	
151	T45-3	PLA 508	tetrad seed stock	
152	T45-4	PLA 509	tetrad seed stock	
153				
154	T46-1	PLA 510	tetrad seed stock	
155	T46-2	PLA 511	tetrad seed stock	
156	T46-3	PLA 512	tetrad seed stock	
157	T46-4	PLA 513	tetrad seed stock	
158				
159	T48-1	PLA 514	tetrad seed stock	
160	T48-2	PLA 515	tetrad seed stock	
161	T48-3	PLA 516	tetrad seed stock	
162				
163	T49-1	PLA 517	tetrad seed stock	
164	T49-2	PLA 518	tetrad seed stock	
165	T49-3	PLA 519	tetrad seed stock	
166	T49-4	PLA 520	tetrad seed stock	
167				
168	TS2-1	PLA 521	tetrad seed stock	
169	TS2-2	PLA 522	tetrad seed stock	
170	TS2-3	PLA 523	tetrad seed stock	
171				
172	TS3-1	PLA 524	tetrad seed stock	
173	TS3-2	PLA 525	tetrad seed stock	
174	TS3-3	PLA 526	tetrad seed stock	
175				
176	T55-1	PLA 527	tetrad seed stock	

FIG. 4 (cont'd)

A	B	C	D
177	TSS-2	PLA 528	tetrad seed stock
178	TSS-3	PLA 529	tetrad seed stock
179			
180	TS6-1	PLA 530	tetrad seed stock
181	TS6-2	PLA 531	tetrad seed stock
182	TS6-3	PLA 532	tetrad seed stock
183	TS6-4	PLA 533	tetrad seed stock
184			
185	TS7-1	PLA 534	tetrad seed stock
186	TS7-2	PLA 535	tetrad seed stock
187	TS7-3	PLA 536	tetrad seed stock
188	TS7-4	PLA 537	tetrad seed stock
189			
190	TS8-1	PLA 538	tetrad seed stock
191	TS8-2	PLA 539	tetrad seed stock
192	TS8-3	PLA 540	tetrad seed stock
193			
194	T60-1	PLA 541	tetrad seed stock
195	T60-2	PLA 542	tetrad seed stock
196	T60-3	PLA 543	tetrad seed stock
197	T60-4	PLA 544	tetrad seed stock
198			
199	T61-1	PLA 545	tetrad seed stock
200	T61-2	PLA 546	tetrad seed stock
201	T61-3	PLA 547	tetrad seed stock
202	T61-4	PLA 548	tetrad seed stock
203			
204	T62-1	PLA 549	tetrad seed stock
205	T62-2	PLA 550	tetrad seed stock
206	T62-3	PLA 551	tetrad seed stock
207			
208	T63-1	PLA 552	tetrad seed stock
209	T63-2	PLA 553	tetrad seed stock
210	T63-3	PLA 554	tetrad seed stock
211			
212	T64-1	PLA 555	tetrad seed stock
213	T64-2	PLA 556	tetrad seed stock
214	T64-3	PLA 557	tetrad seed stock
215	T64-4	PLA 558	tetrad seed stock
216			
217	T66-1	PLA 559	tetrad seed stock
218	T66-2	PLA 560	tetrad seed stock
219	T66-3	PLA 561	tetrad seed stock
220			

FIG. 4 (cont'd)

		B	C	D
221	T68-1	PLA 562	tetrad seed stock	
222	T68-2	PLA 563	tetrad seed stock	
223	T68-3	PLA 564	tetrad seed stock	
224				
225	T69-1	PLA 565	tetrad seed stock	
226	T69-2	PLA 566	tetrad seed stock	
227	T69-3	PLA 567	tetrad seed stock	
228				
229	T70-1	PLA 568	tetrad seed stock	
230	T70-2	PLA 569	tetrad seed stock	
231	T70-3	PLA 570	tetrad seed stock	
232				
233	T71-1	PLA 571	tetrad seed stock	
234	T71-2	PLA 572	tetrad seed stock	
235	T71-3	PLA 573	tetrad seed stock	
236				
237	T72-1	PLA 574	tetrad seed stock	
238	T72-1	PLA 575	tetrad seed stock	
239	T72-3	PLA 576	tetrad seed stock	
240	T72-4	PLA 577	tetrad seed stock	
241				
242	T73-1	PLA 578	tetrad seed stock	
243	T73-2	PLA 579	tetrad seed stock	
244	T73-3	PLA 580	tetrad seed stock	
245				
246	T74-1	PLA 581	tetrad seed stock	
247	T74-2	PLA 582	tetrad seed stock	
248	T74-3	PLA 583	tetrad seed stock	
249				
250	T75-1	PLA 584	tetrad seed stock	
251	T75-2	PLA 585	tetrad seed stock	
252	T75-3	PLA 586	tetrad seed stock	
253				
254	T78-1	PLA 587	tetrad seed stock	
255	T78-2	PLA 588	tetrad seed stock	
256	T78-3	PLA 589	tetrad seed stock	
257				
258	T79-1	PLA 590	tetrad seed stock	
259	T79-2	PLA 591	tetrad seed stock	
260	T79-3	PLA 592	tetrad seed stock	

FIG. 4 (cont'd)

Chromosome #	Marker name	name used in '99 manuscript	Marker Type	Public?	Forward Primer		Reverse Primer	
1	nga59		SSLP	YES				
1	nga63		SSLP	YES				
1	m59	CAPS (BstU I)	YES					
1	g2395	CAPS (Xba I)	YES					
1	m235	CAPS (Hind III)	YES					
1	athZFPG	SSLP	YES					
1	SO392	CAPS (Taq I)	YES					
1	UFO	SSLP	NO		CGCCAAAGACTACGAAATGATC		ATAATAGATAAAGAGCCCCACAC	
1	Cxc750	CAPS (Acc I)	NO		GGGTCTGGTTATGCCGTGAAG		GTTTACCTTAGTCAAATGGTAG	
1	7G6	CAPS (Mnl I)	NO		AAATGCCCAAACGATCAGAAAGAATAG		GAAGTCCGGCATGTTATCACCAAG	
1	AIG1	CAPS (Nla III)	NO		CAAGTGGCAAACGGAAAATG		AAACTACGCGCTAACCACTATTCTC	
1	ml63	ml342	CAPS (Hinf I)	NO	GAAGTACACGGGGCTCAAAAGAAG		TTGCTGCCATGTTAATACCTAAGTG	
1	122G23-sp6	122G23-sp6	CAPS (Mnl I)	NO	GtttGAGATGTTTATGTTTCTTTC		CGAGGUGATTTGCTTTCCTTTC	
1	15D18-sp6	15D18-sp6	CAPS (Acc I)	NO	ATGAAATAAACGAGGAAATGTC		CCAAWGGCCGTAAGCTGATVAAAG	
1	F1GK23-sp6	F1GK23-sp6	SSLP	NO	TACCCAGATTAAGCTACAC		CCTTGAATGGCTTATGATGATG	
1	F19K14-sp6	F19K14-sp6	CAP S (Cob II)	NO	TCCTATCCCTTACCTTCAAC		AGGCTTGGGATTTTATGATGATG	
1	F5L13-sp6	F5L13-sp6	CAP S (Mae III)	NO	GAACGTCCTTCTTCTTCTTCT		AGAATCTCTTAAAGCTGCTG	
1	T314-sp6	T314-sp6	CAP S (Mae III)	NO	ATTCATGAGTGGAAACGGG		AGAACCTTGGGATCATATTGTTAGC	
1	T3P3-sp6	T3P3-sp6	SSLP	NO	AACTCTTCTTCTTCTTCTTCT			
1	T10N9-sp6	T10N9-sp6	SSLP	YES	GCCTTGGATGATCAGTGGTG			
1	T27K12		SSLP					
1	Icc3		CAPS (Nla III)	NO			GAATCTTTGGCAAACGAGTGG	
1	GPCm19		CAPS (Fnu4H I)	NO			TTACCCGGAGAAAAAGTATG	
1	nga280		SSLP	YES				
1	nga128		SSLP	YES				
1	EIR		SSLP	YES				
1	TAG1		SSLP	YES				
1	AthATPASE		SSLP	YES				
1	nga692		SSLP	YES				
2	nga1145		SSLP	YES				
2	m246	CAPS (Mae III)	YES					

FIG. 5

2	ml310	SSLP	CAPS (Msp I)	NO	ACTTCATCACCTGGGGACTG	GGCCAGAACGCCACAAACAC			
2	F28M3-17	SSLP	CAPS (Msp I)	NO	ACCGCAAGTGCCTGGCTGTC	GTTAATCTAGAVGAGATGTTGGAGTTAC			
2	F16D1-17	SSLP	CAPS (Msp I)	NO	AAGCCTATTAGCCCTTTATAG	GTCTCTATGGATTCGGTGCG			
2	T22D4-17	SSLP	CAPS (Msp I)	NO	TCAGACGTCGCAAAATCATAGAC	ACGGGCTCTGGCCGCGG			
2	T20E5-17	SSLP	CAPS (Msp I)	NO	CCCCCCCWAGGGCAGC	AAACGATAUTTGATGCTTGTATTCG			
2	F9A16-17	SSLP	CAPS (Msp I)	NO	CATTCAACGCCGTTGTC	ATAGAGGTTGGCTGAGATGG			
2	T14D2-16	SSLP	CAPS (Msp I)	NO	AGCTTGCATTTCCTGCTTAATTTAG	ATAGAGGTTGGCTGAGATGG			
2	F16P2-17	SSLP	CAPS (Msp I)	NO	TCAGCTTCCACAGCTAGCC	AGCTTGCATTTCCTGCTTAATTTAG			
2	T15D9-19	SSLP	CAPS (Msp I)	NO	CAATCCCGTAAAGGCTGAGAC	AGCTTGCATTTCCTGCTTAATTTAG			
2	T6A13-sp6	SSLP	T6A13-sp6	NO	GAAGCCTCTAGGAACTTCAC	AGCTTGCATTTCCTGCTTAATTTAG			
2	T13H18-17	SSLP	T13H18-17	NO	GGTAAACAGGCTTCACTCGTC	AAAGACTTGTATTTGGGATTTG			
2	T13H18-sp6	SSLP	T13H18-sp6	NO	TCTTTCCTCTTAATCTATTGTTG	AAACGATTTGTTCCCTGTAGTG			
2	T10J7-sp6	SSLP	T10J7-17	NO	TCTCTGTGCTTCTCTTCTGAC	GCAATGCTACGGCTCTGATAG			
2	T17A11-17	SSLP	CAPS (Msp I)	NO	TTGTTTCTAGGTTTGTGTAAG	ATGCTGGGATGTTGGTAAGG			
2	GP28	SSLP	CAPS (Msp I)	NO	AGTCATGTCTAGGCTCTTC	CTTCATTTCTGATTAGTTAGTC			
2	m1398	SSLP	CAPS (Mnl I)	NO	ACTAAGCCCTGTTGATGTTCTC	AACCGCCATTTCATTCTATC			
2	THY1B	SSLP	CAPS (Rsa I)	NO	GGCGA CCTGGACCTGTATAACG				
2	PhyB	SSLP	CAPS (Xba I)	YES					
2	nga1126	SSLP		YES					
2	nga361	SSLP		YES					
2	nga168	SSLP		YES					
3	nga32	SSLP		YES					
3	nga172	SSLP		YES					
3	nga162	SSLP	CAPS (EcoRI)	YES					
3	APLm	SSLP	CAPS (Taq I)	YES					
3	GAPA	SSLP	CAPS (Msp I)	NO					
3	GL1	SSLP	CAPS (Msp I)	NO					
3	atpox	SSLP	CAPS (Msp I)	NO					
3	T25C10-sp6	SSLP	T25C10-sp6	NO					
3	T2/C7-sp6	SSLP	T2/C7-sp6	NO					
3	T2G9-16	SSLP	T2G9-16	NO					
3	T2G9-17	SSLP	T2G9-17	NO					
3	T2G9-18	SSLP	T2G9-18	NO					
3	T2G9-19	SSLP	T2G9-19	NO					
3	T2G9-20	SSLP	T2G9-20	NO					
3	T2G9-21	SSLP	T2G9-21	NO					
3	T2G9-22	SSLP	T2G9-22	NO					
3	T2G9-23	SSLP	T2G9-23	NO					
3	T2G9-24	SSLP	T2G9-24	NO					
3	T2G9-25	SSLP	T2G9-25	NO					
3	T2G9-26	SSLP	T2G9-26	NO					
3	T2G9-27	SSLP	T2G9-27	NO					
3	T2G9-28	SSLP	T2G9-28	NO					
3	T2G9-29	SSLP	T2G9-29	NO					
3	T2G9-30	SSLP	T2G9-30	NO					
3	T2G9-31	SSLP	T2G9-31	NO					
3	T2G9-32	SSLP	T2G9-32	NO					
3	T2G9-33	SSLP	T2G9-33	NO					
3	T2G9-34	SSLP	T2G9-34	NO					
3	T2G9-35	SSLP	T2G9-35	NO					
3	T2G9-36	SSLP	T2G9-36	NO					
3	T2G9-37	SSLP	T2G9-37	NO					
3	T2G9-38	SSLP	T2G9-38	NO					
3	T2G9-39	SSLP	T2G9-39	NO					
3	T2G9-40	SSLP	T2G9-40	NO					
3	T2G9-41	SSLP	T2G9-41	NO					
3	T2G9-42	SSLP	T2G9-42	NO					
3	T2G9-43	SSLP	T2G9-43	NO					
3	T2G9-44	SSLP	T2G9-44	NO					
3	T2G9-45	SSLP	T2G9-45	NO					
3	T2G9-46	SSLP	T2G9-46	NO					
3	T2G9-47	SSLP	T2G9-47	NO					
3	T2G9-48	SSLP	T2G9-48	NO					
3	T2G9-49	SSLP	T2G9-49	NO					
3	T2G9-50	SSLP	T2G9-50	NO					
3	T2G9-51	SSLP	T2G9-51	NO					
3	T2G9-52	SSLP	T2G9-52	NO					
3	T2G9-53	SSLP	T2G9-53	NO					
3	T2G9-54	SSLP	T2G9-54	NO					
3	T2G9-55	SSLP	T2G9-55	NO					
3	T2G9-56	SSLP	T2G9-56	NO					
3	T2G9-57	SSLP	T2G9-57	NO					
3	T2G9-58	SSLP	T2G9-58	NO					
3	T2G9-59	SSLP	T2G9-59	NO					
3	T2G9-60	SSLP	T2G9-60	NO					
3	T2G9-61	SSLP	T2G9-61	NO					
3	T2G9-62	SSLP	T2G9-62	NO					
3	T2G9-63	SSLP	T2G9-63	NO					
3	T2G9-64	SSLP	T2G9-64	NO					
3	T2G9-65	SSLP	T2G9-65	NO					
3	T2G9-66	SSLP	T2G9-66	NO					
3	T2G9-67	SSLP	T2G9-67	NO					
3	T2G9-68	SSLP	T2G9-68	NO					
3	T2G9-69	SSLP	T2G9-69	NO					
3	T2G9-70	SSLP	T2G9-70	NO					
3	T2G9-71	SSLP	T2G9-71	NO					
3	T2G9-72	SSLP	T2G9-72	NO					
3	T2G9-73	SSLP	T2G9-73	NO					
3	T2G9-74	SSLP	T2G9-74	NO					
3	T2G9-75	SSLP	T2G9-75	NO					
3	T2G9-76	SSLP	T2G9-76	NO					
3	T2G9-77	SSLP	T2G9-77	NO					
3	T2G9-78	SSLP	T2G9-78	NO					
3	T2G9-79	SSLP	T2G9-79	NO					
3	T2G9-80	SSLP	T2G9-80	NO					
3	T2G9-81	SSLP	T2G9-81	NO					
3	T2G9-82	SSLP	T2G9-82	NO					
3	T2G9-83	SSLP	T2G9-83	NO					
3	T2G9-84	SSLP	T2G9-84	NO					
3	T2G9-85	SSLP	T2G9-85	NO					
3	T2G9-86	SSLP	T2G9-86	NO					
3	T2G9-87	SSLP	T2G9-87	NO					
3	T2G9-88	SSLP	T2G9-88	NO					
3	T2G9-89	SSLP	T2G9-89	NO					
3	T2G9-90	SSLP	T2G9-90	NO					
3	T2G9-91	SSLP	T2G9-91	NO					
3	T2G9-92	SSLP	T2G9-92	NO					
3	T2G9-93	SSLP	T2G9-93	NO					
3	T2G9-94	SSLP	T2G9-94	NO					
3	T2G9-95	SSLP	T2G9-95	NO					
3	T2G9-96	SSLP	T2G9-96	NO					
3	T2G9-97	SSLP	T2G9-97	NO					
3	T2G9-98	SSLP	T2G9-98	NO					
3	T2G9-99	SSLP	T2G9-99	NO					
3	T2G9-100	SSLP	T2G9-100	NO					
3	T2G9-101	SSLP	T2G9-101	NO					
3	T2G9-102	SSLP	T2G9-102	NO					
3	T2G9-103	SSLP	T2G9-103	NO					
3	T2G9-104	SSLP	T2G9-104	NO					
3	T2G9-105	SSLP	T2G9-105	NO					
3	T2G9-106	SSLP	T2G9-106	NO					
3	T2G9-107	SSLP	T2G9-107	NO					
3	T2G9-108	SSLP	T2G9-108	NO					
3	T2G9-109	SSLP	T2G9-109	NO					
3	T2G9-110	SSLP	T2G9-110	NO					
3	T2G9-111	SSLP	T2G9-111	NO					
3	T2G9-112	SSLP	T2G9-112	NO					
3	T2G9-113	SSLP	T2G9-113	NO					
3	T2G9-114	SSLP	T2G9-114	NO					
3	T2G9-115	SSLP	T2G9-115	NO					
3	T2G9-116	SSLP	T2G9-116	NO					
3	T2G9-117	SSLP	T2G9-117	NO					
3	T2G9-118	SSLP	T2G9-118	NO					
3	T2G9-119	SSLP	T2G9-119	NO					
3	T2G9-120	SSLP	T2G9-120	NO					
3	T2G9-121	SSLP	T2G9-121	NO					
3	T2G9-122	SSLP	T2G9-122	NO					
3	T2G9-123	SSLP	T2G9-123	NO					
3	T2G9-124	SSLP	T2G9-124	NO					
3	T2G9-125	SSLP	T2G9-125	NO					
3	T2G9-126	SSLP	T2G9-126	NO					
3	T2G9-127	SSLP	T2G9-127	NO					
3	T2G9-128	SSLP	T2G9-128	NO					
3	T2G9-129	SSLP	T2G9-129	NO					
3	T2G9-130	SSLP	T2G9-130	NO					
3	T2G9-131	SSLP	T2G9-131	NO					
3	T2G9-132	SSLP	T2G9-132	NO					
3	T2G9-133	SSLP	T2G9-133	NO					
3	T2G9-134	SSLP	T2G9-134	NO					
3	T2G9-135	SSLP	T2G9-135	NO					
3	T2G9-136	SSLP	T2G9-136	NO					
3	T2G9-137	SSLP	T2G9-137	NO					
3	T2G9-138	SSLP	T2G9-138	NO					
3	T2G9-139	SSLP	T2G9-139	NO					
3	T2G9-140	SSLP	T2G9-140	NO					
3	T2G9-141	SSLP	T2G9-141	NO					
3	T2G9-142	SSLP	T2G9-142	NO					
3	T2G9-143	SSLP	T2G9-143	NO					
3	T2G9-144	SSLP	T2G9-144	NO					
3	T2G9-145	SSLP	T2G9-145	NO					
3	T2G9-146	SSLP	T2G9-146	NO					
3	T2G9-147	SSLP	T2G9-147	NO					
3	T2G9-148	SSLP	T2G9-148	NO					
3	T2G9-149	SSLP	T2G9-149	NO					
3	T2G9-150	SSLP	T2G9-150	NO					
3	T2G9-151	SSLP	T2G9-151	NO					
3	T2G9-152	SSLP	T2G9-152	NO					
3	T2G9-153	SSLP	T2G9-153	NO					
3	T2G9-154	SSLP	T2G9-154	NO					
3	T2G9-155	SSLP	T2G9-155	NO					
3	T2G9-156	SSLP	T2G9-156	NO					
3	T2G9-157	SSLP	T2G9-157	NO					
3	T2G9-158	SSLP	T2G9-158	NO					
3	T2G9-159	SSLP	T2G9-159	NO					
3	T2G9-160	SSLP	T2G9-160	NO					
3	T2G9-161	SSLP	T2G9-161	NO					
3	T2G9-162	SSLP	T2G9-162	NO					
3	T2G9-163	SSLP	T2G9-163	NO					
3	T2G9-164	SSLP	T2G9-164	NO					

FIG. 5 (cot'd)

FIG. 5 (cot'd)

FIG. 5 (cot'd)

		CAPS (Apo I)	YES
4	COP9	CAPS (Acc I)	YES
4	SC5	CAPS (Hind III)	YES
4	94539	CAPS (Xba I)	YES
4	AG	SSLP	YES
4	nga1139	SSLP	
4	nga1107	SSLP	
5	CTR1	SSLP	YES
5	ca72	SSLP	YES
5	nga106	SSLP	YES
5	nga139	SSLP	YES
5	SO262	SSLP	YES
5	nga76	CAPS (Mse I)	NO
5	T1CK20-sp6	CAPS (Sst I)	NO
5	T1CK20-sp6	CAPS (Mse I)	NO
5	T1CK20-sp6	SSLP	NO
5	T1CK20-sp6	CAPS (Mse I)	NO
5	Cult 1	SSLP	NO
5	T22J22-sp6	SSLP	NO
5	T17M11-sp6	T17M11-sp6	SSLP
5	T14O24-sp6	T14O24-sp6	CAPS (Tsp509 I)
5	F18G23	F18G23-17	SSLP
5	T2L5.3K	T2L5.3	CAPS (Fnu4H I)
5	F7N22.3K1		CAPS (Bta I)
5	T3L6-sp6	T3L6-sp6	CAPS (Mnl I)
5	T21K16-t7		NO
5	phyC		YES
5	SO191		YES
5	DFR		YES
5	LFY		YES

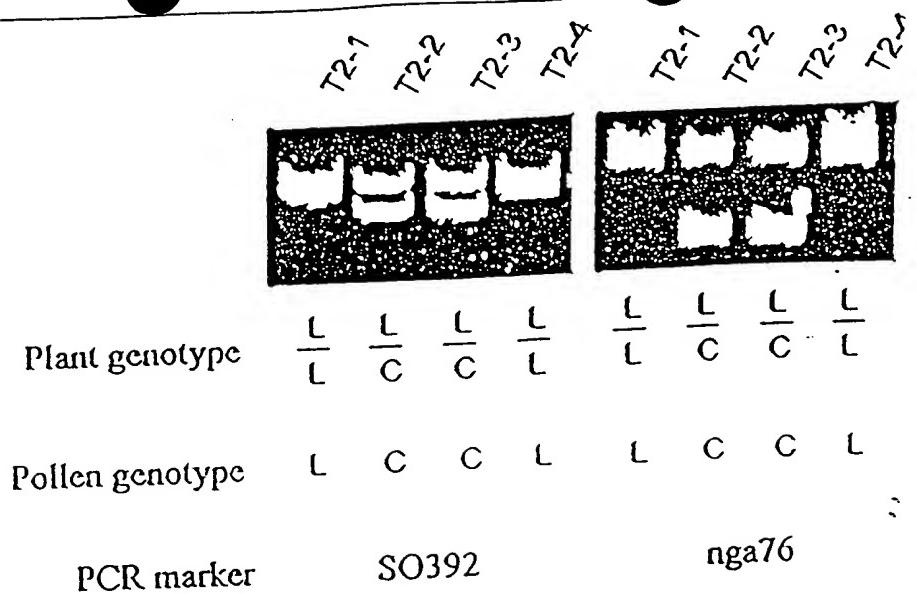


FIG. 6

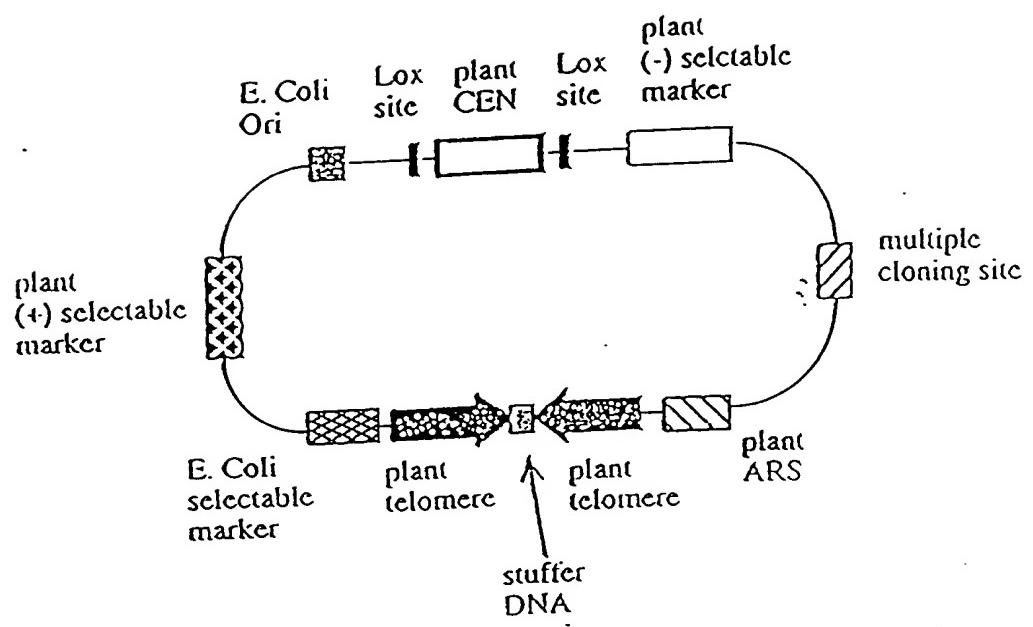


FIG. 7A

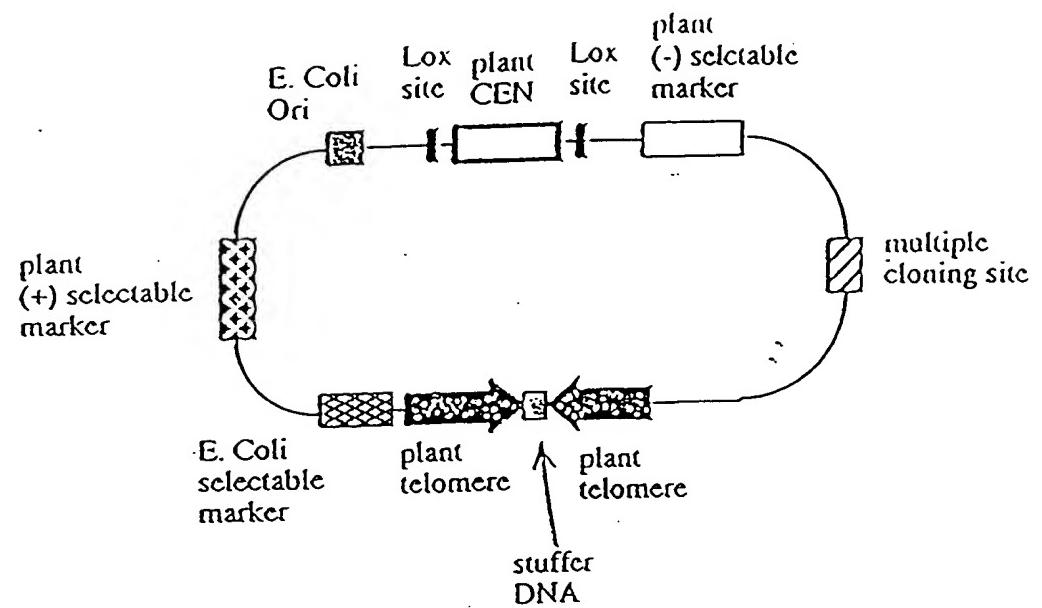


FIG. 7B

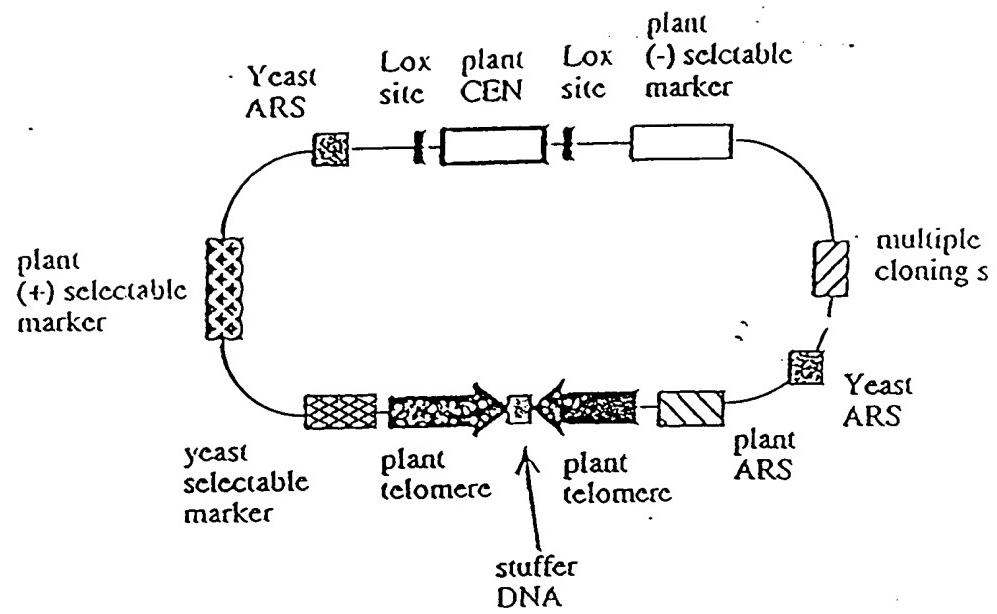


FIG. 7C

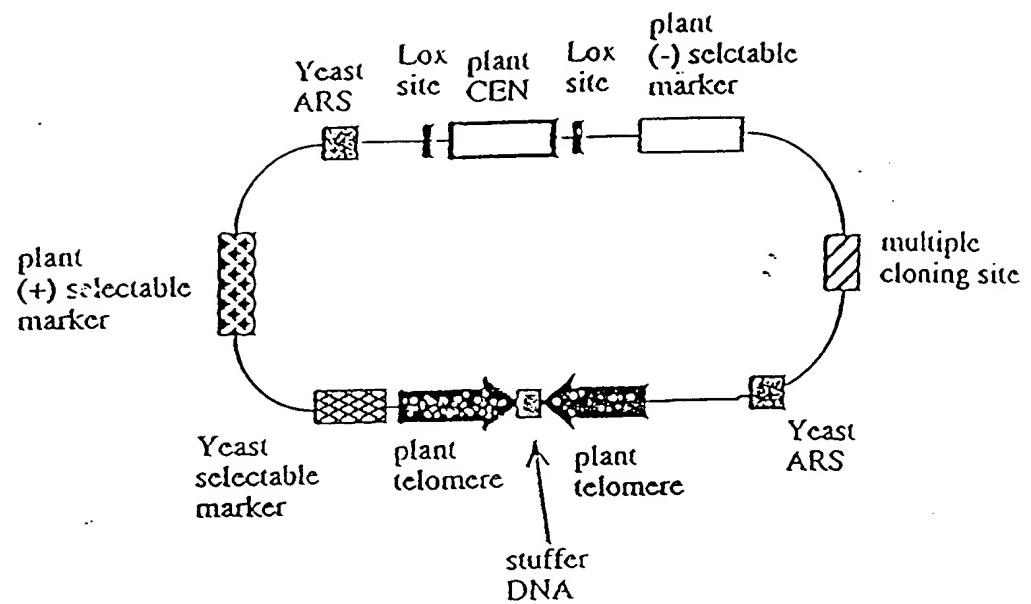


FIG. 7D

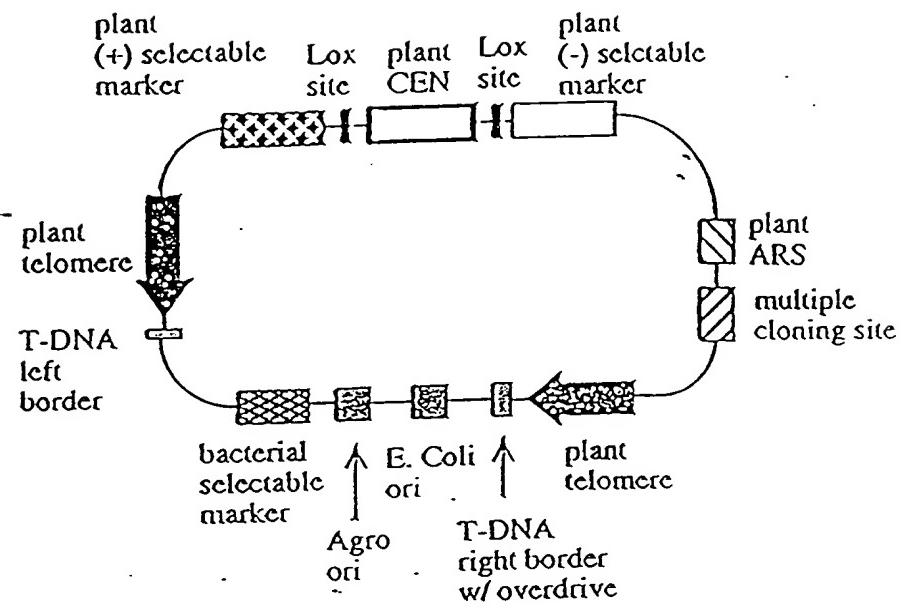


FIG. 7E

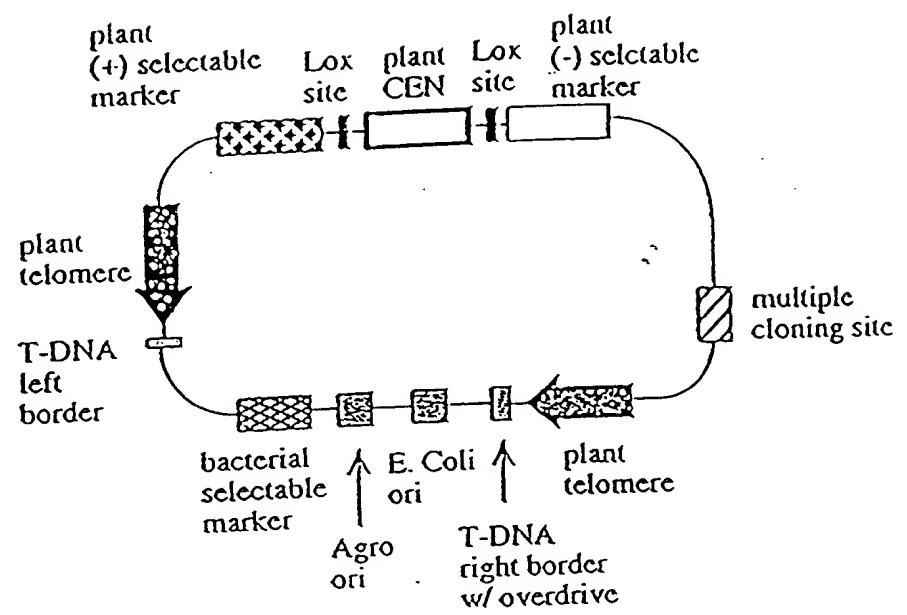


FIG. 7F

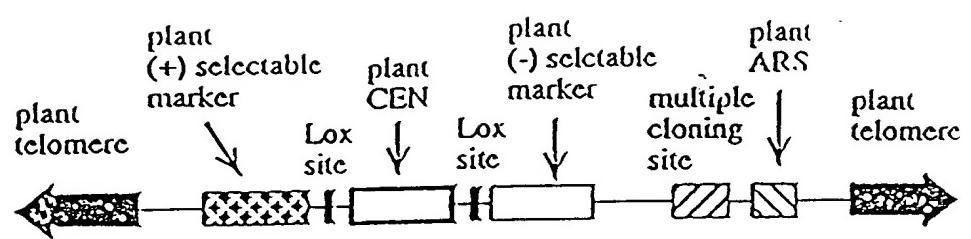


FIG. 7G

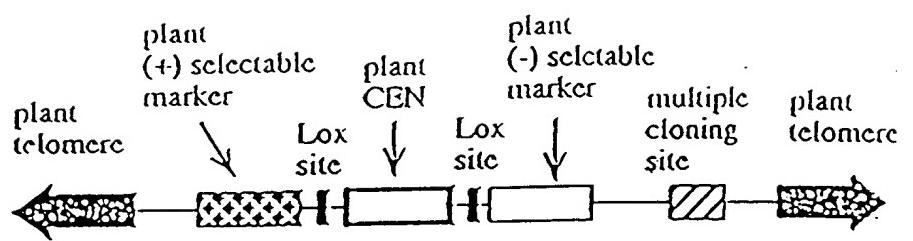


FIG. 7H

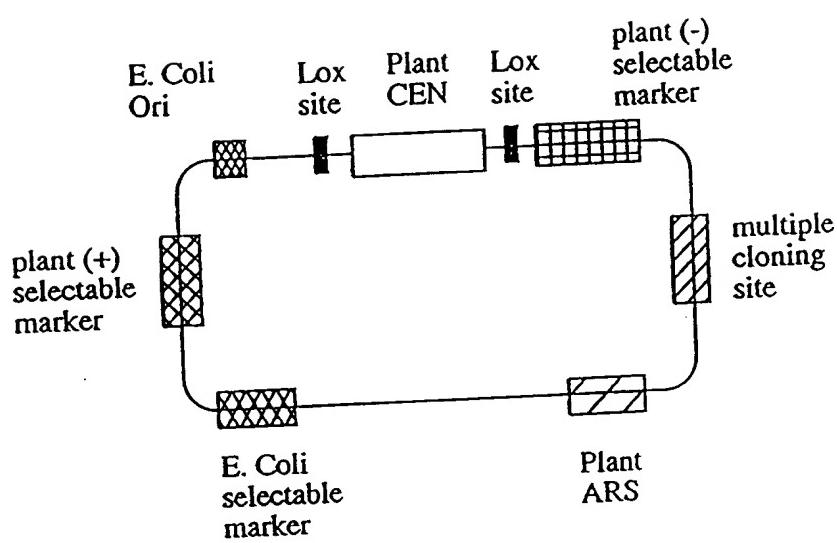


FIG. 7I

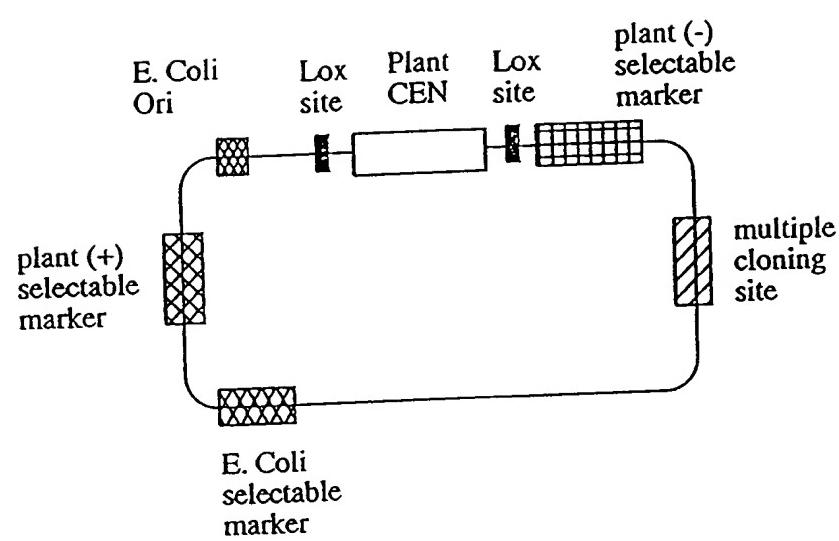


FIG. 7J

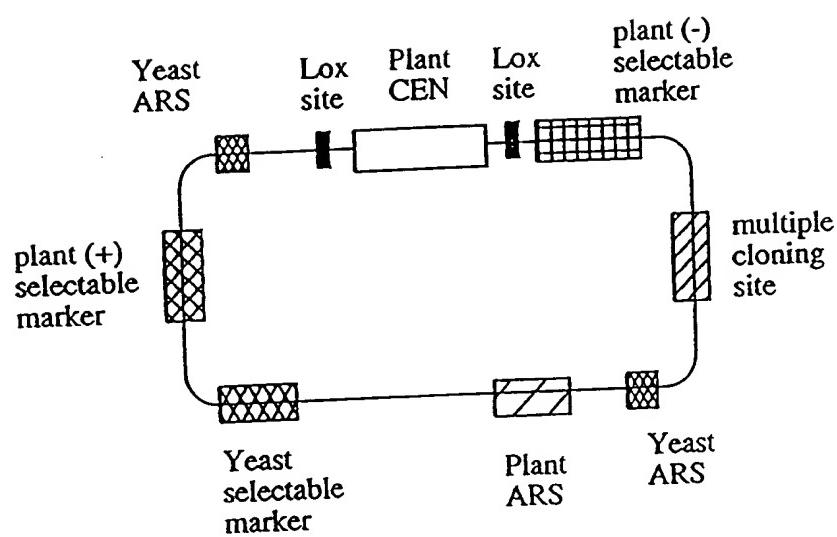


FIG. 7K

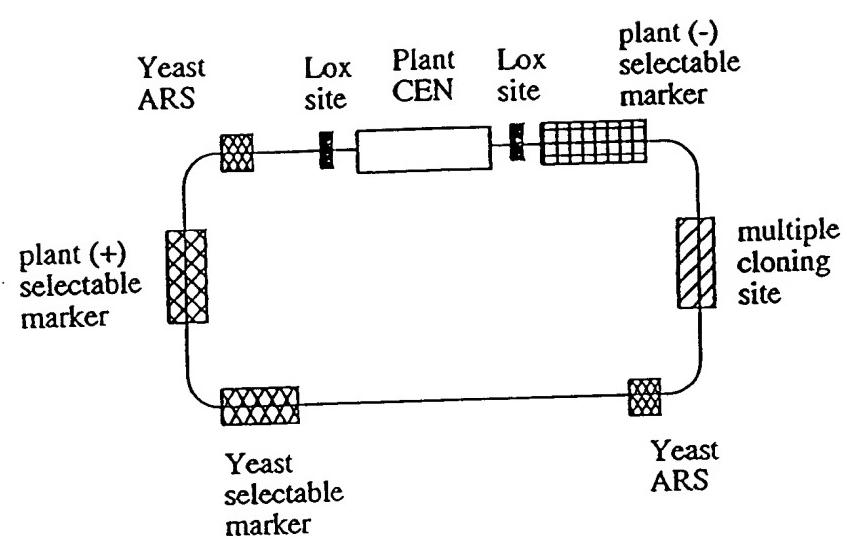


FIG. 7L

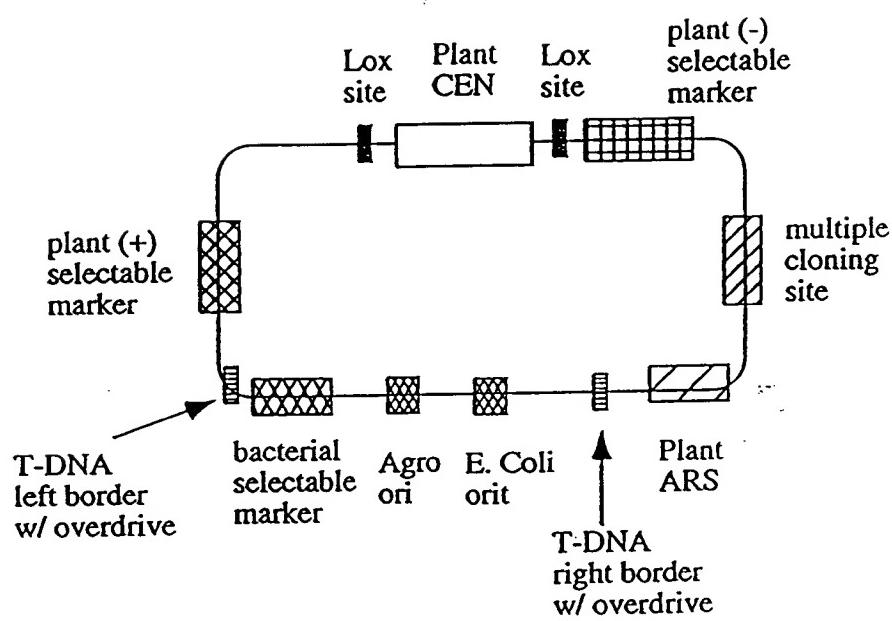


FIG. 7M

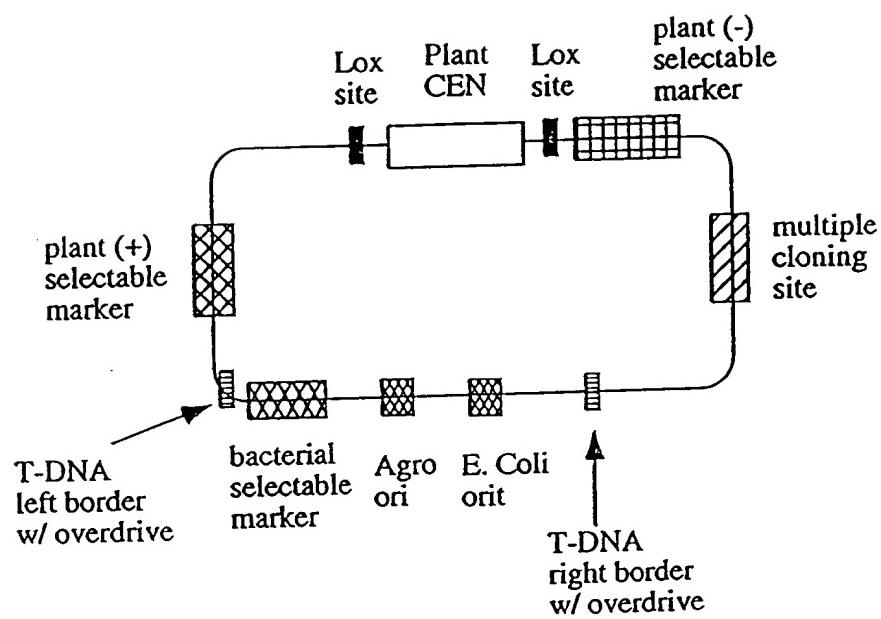


FIG. 7N

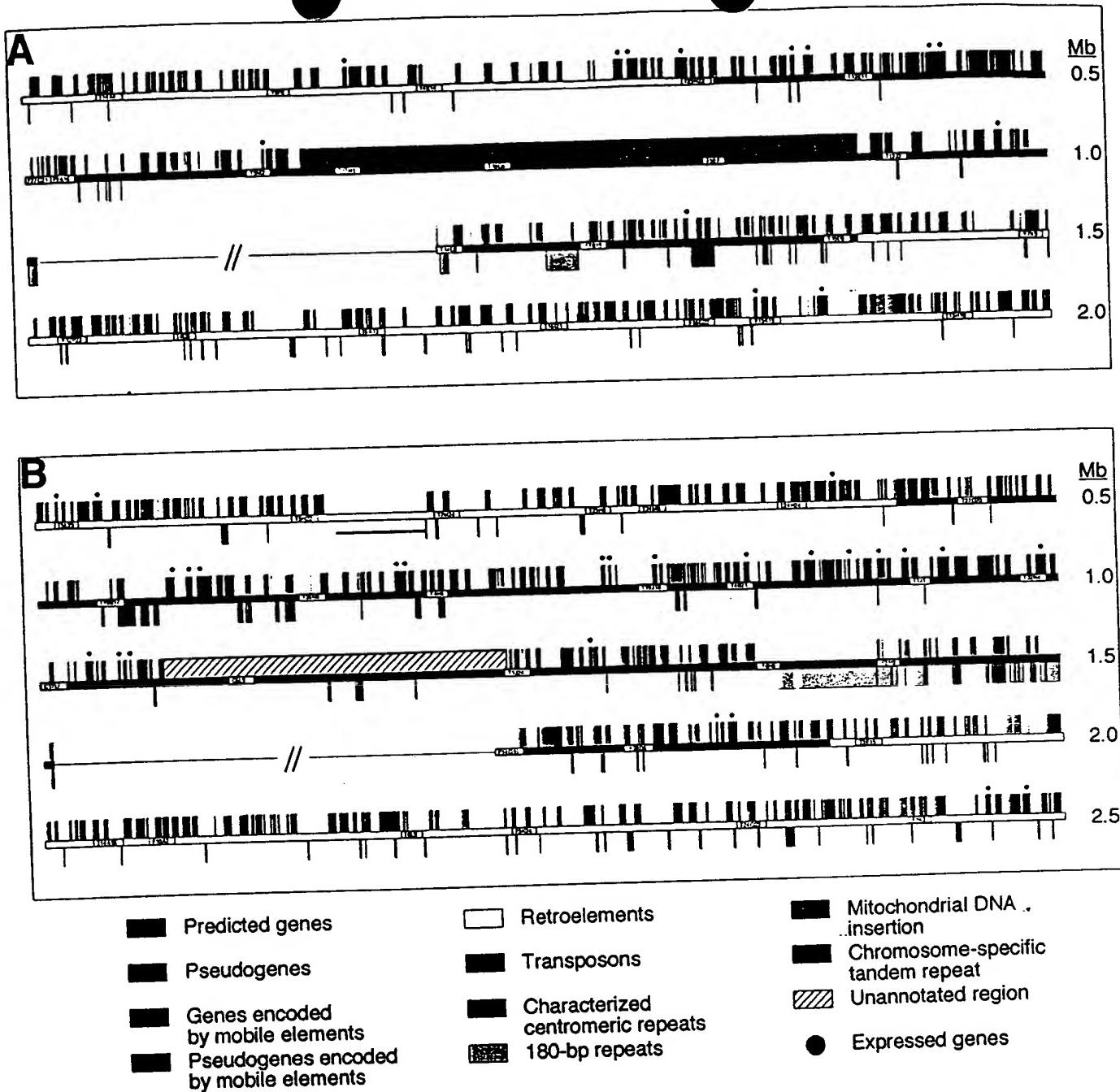


FIG. 8A, B

for 55 55 55 55 55 55 55 55 55 55

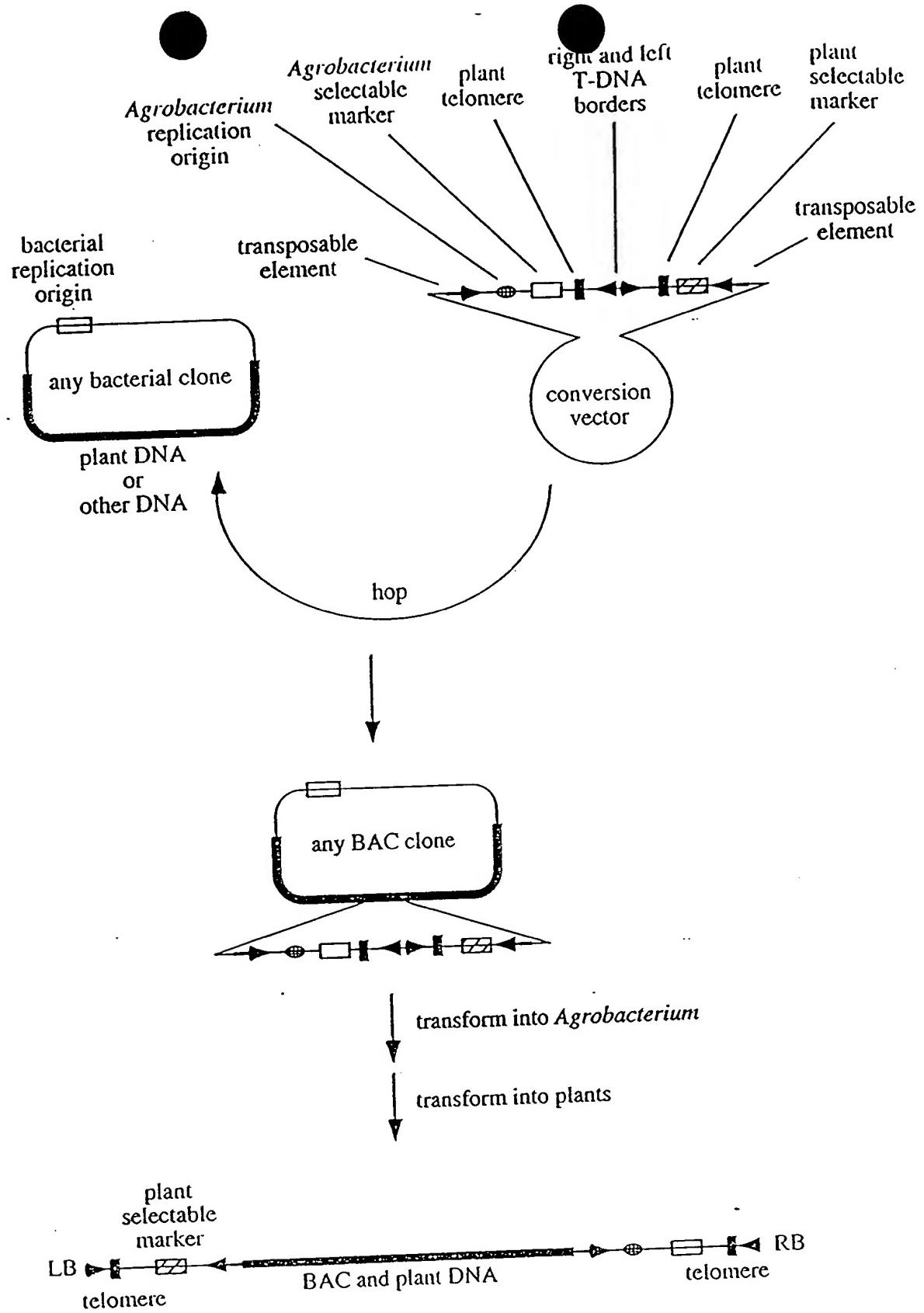


FIG. 9

1)

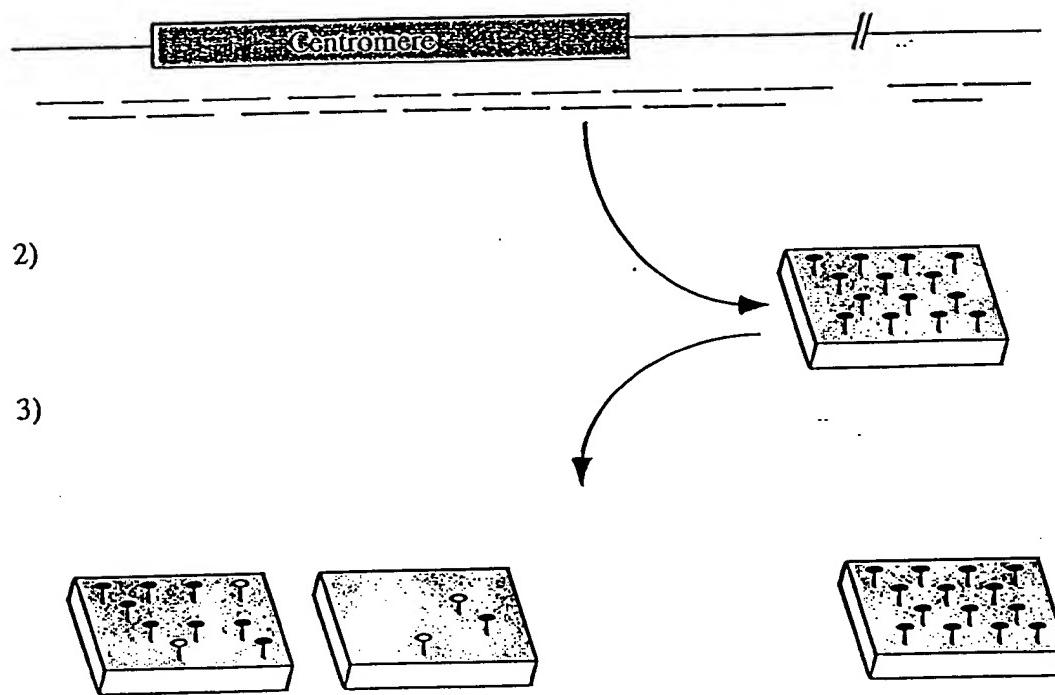


FIG.10

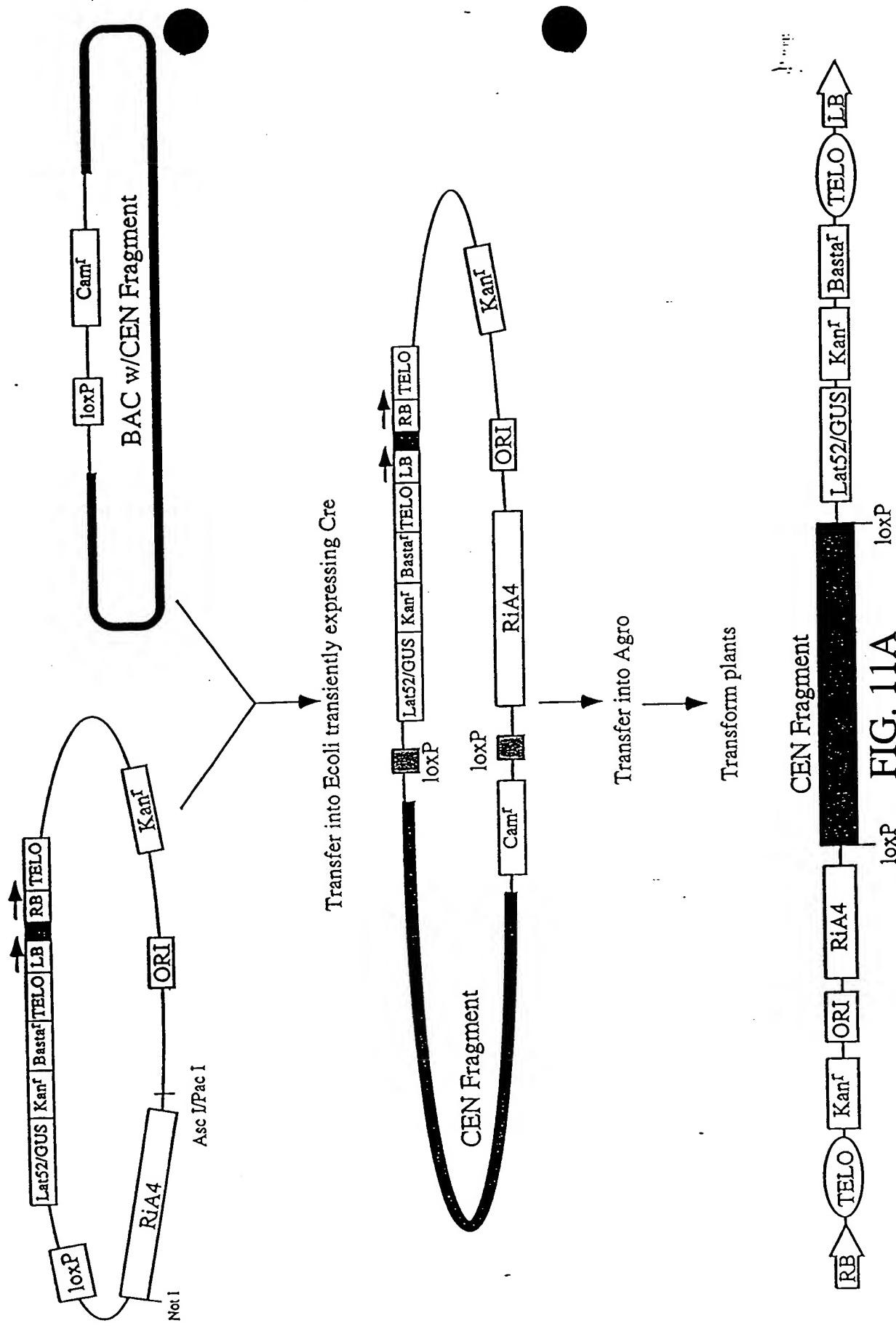


FIG. 11B

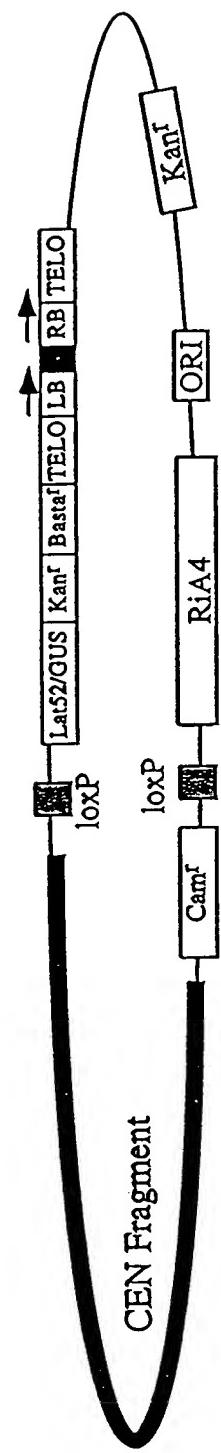


FIG. 11C

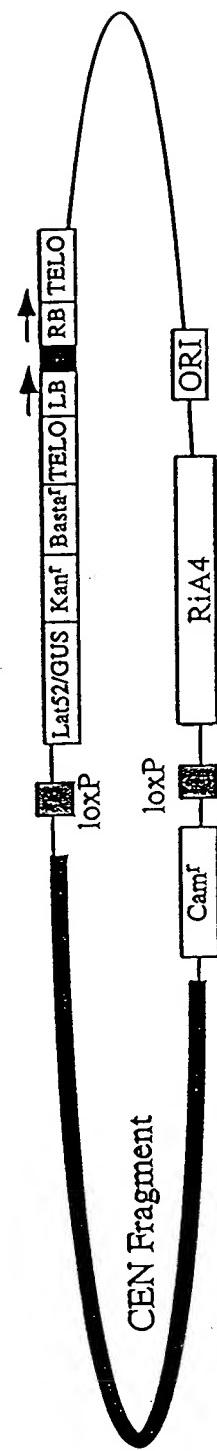


FIG. 11D

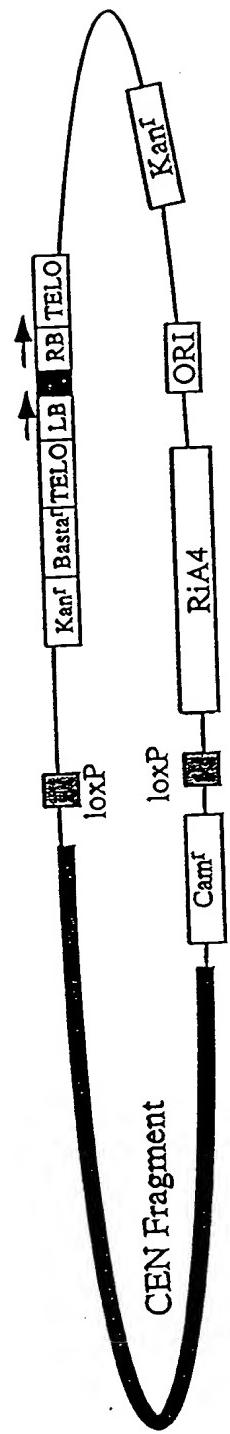


FIG. 11E

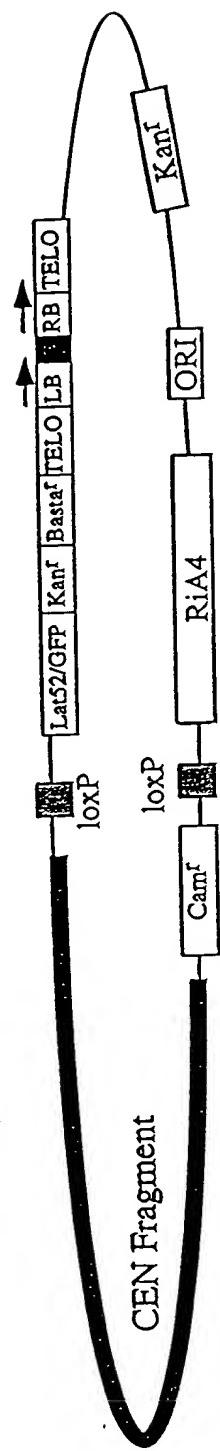


FIG. 11F

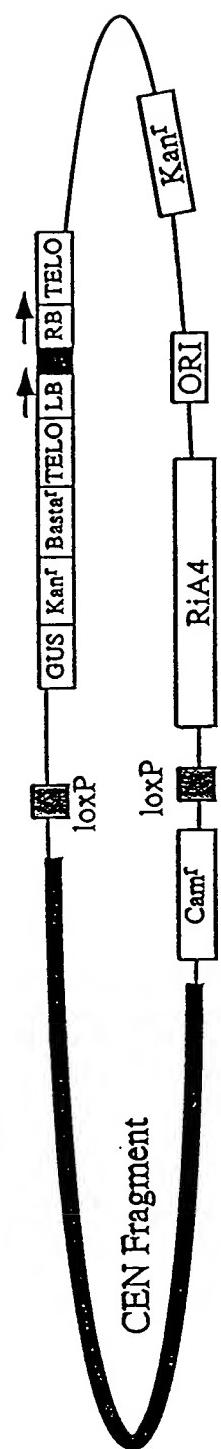
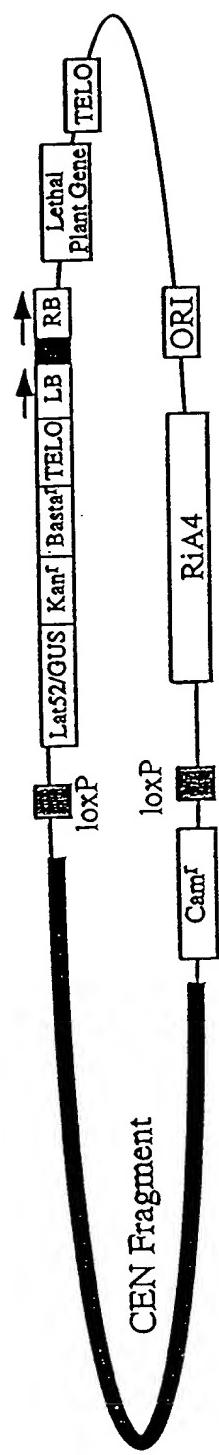


FIG. 11G



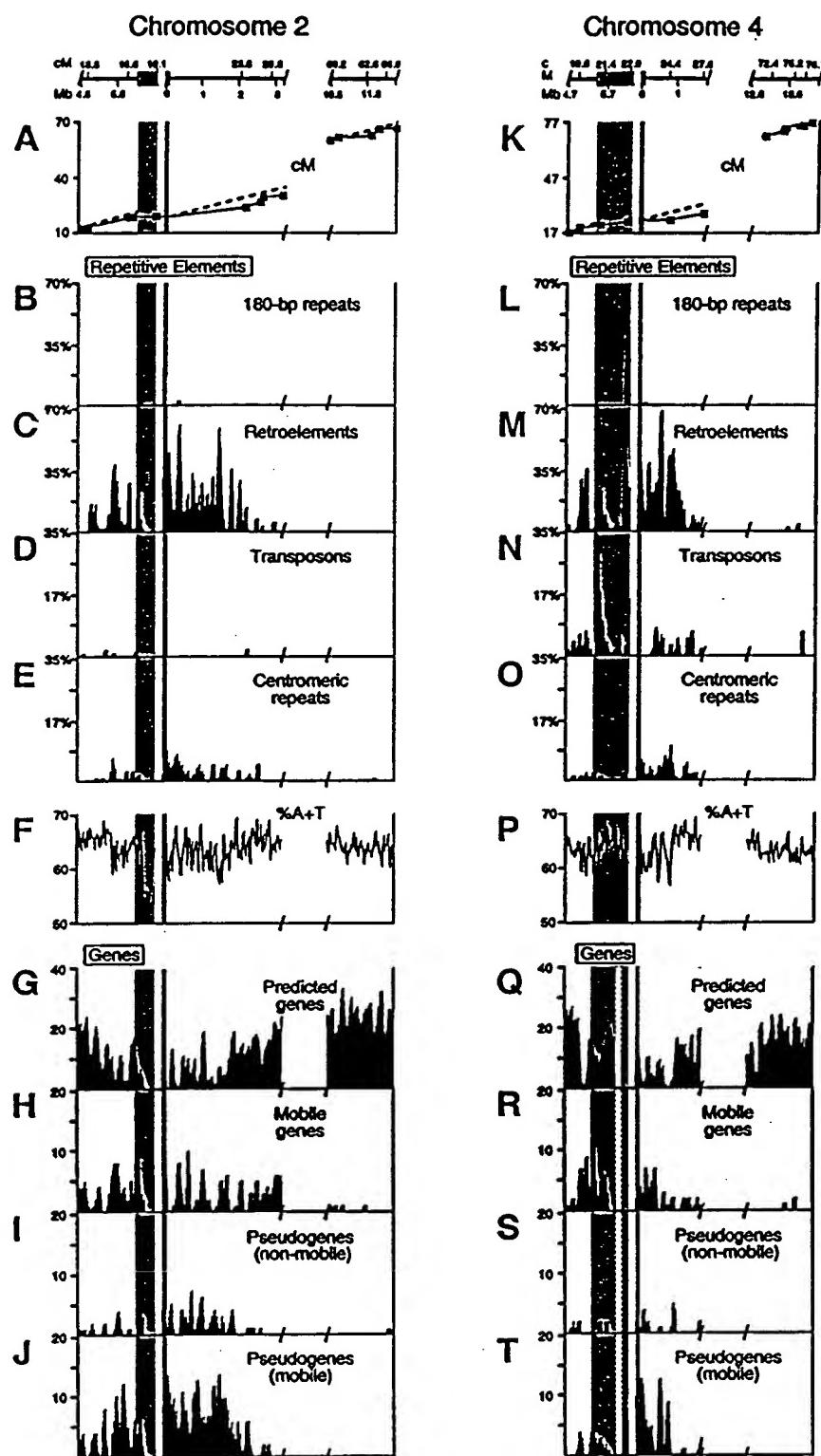


FIG. 12A-T

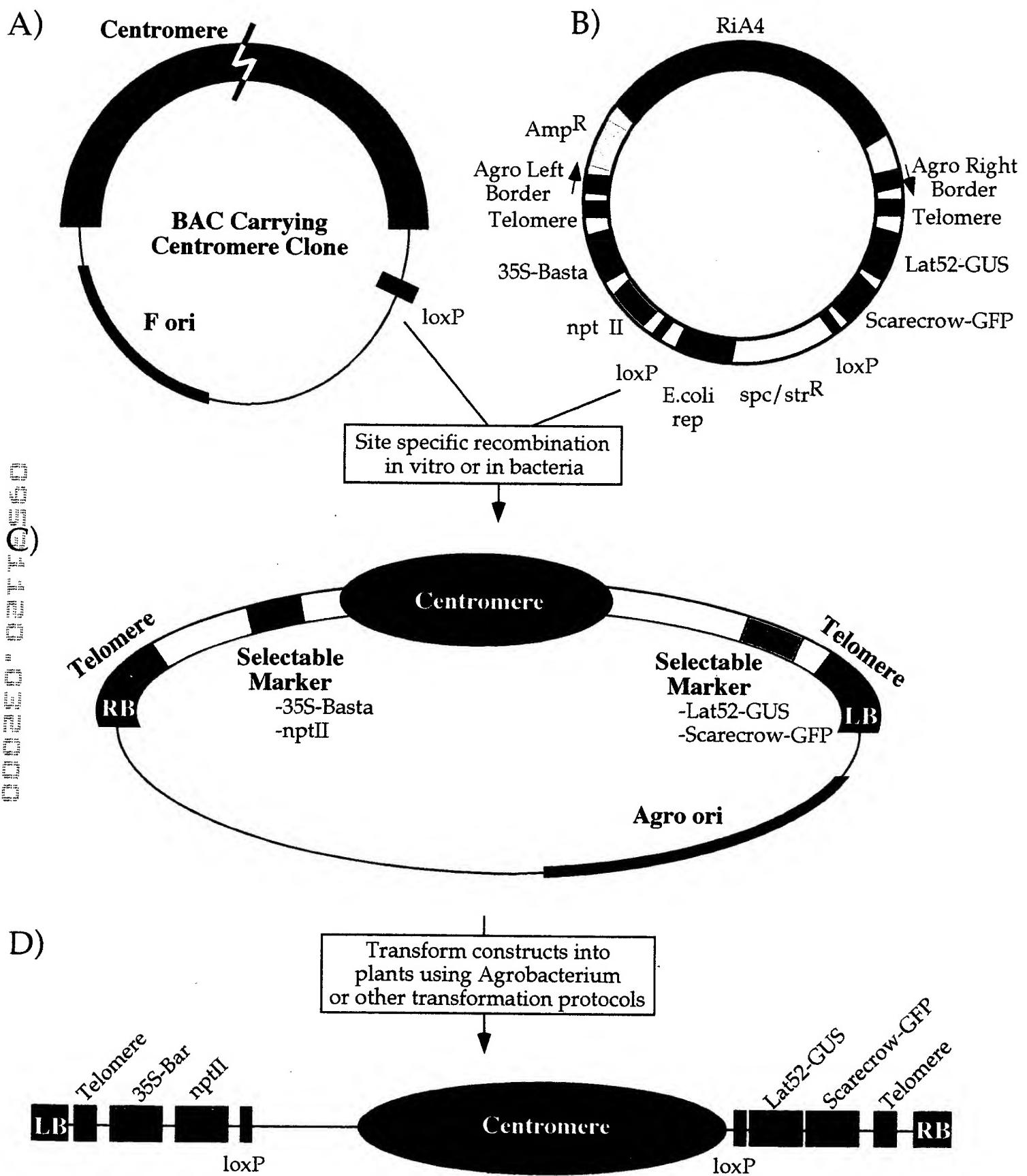


FIG. 13

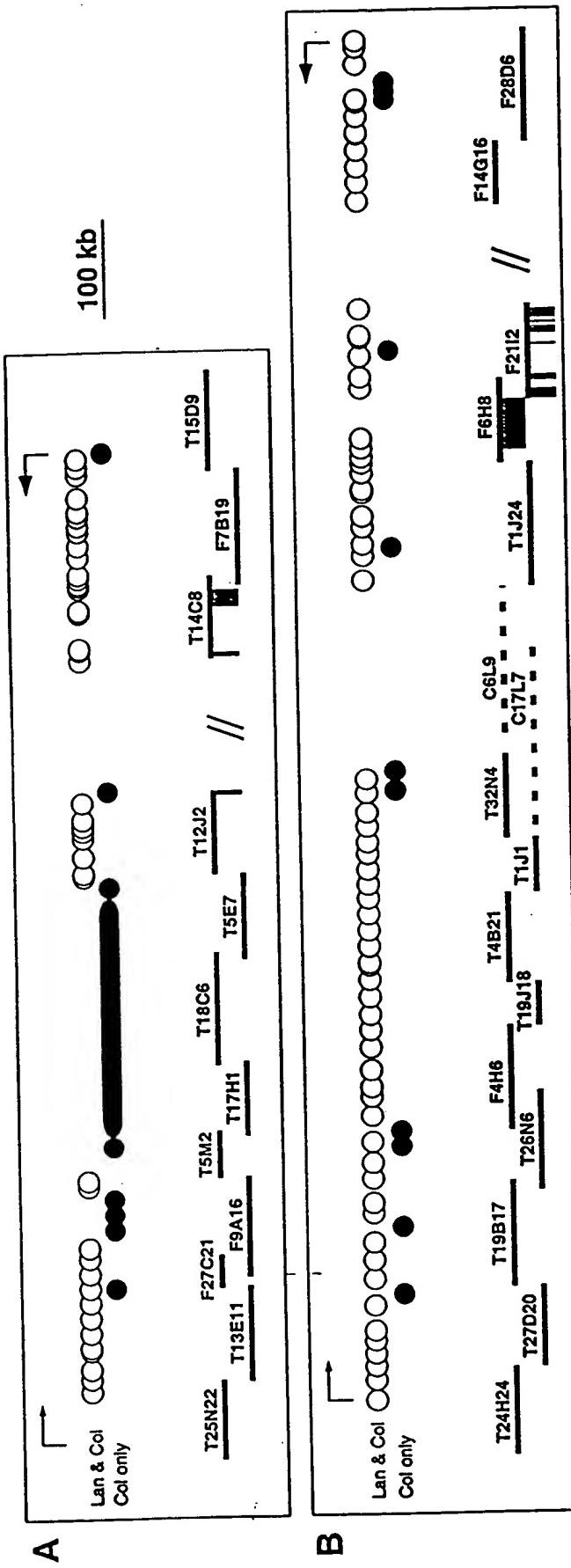


FIG. 14A, B

Sequenced clone	marker name	marker or primer pair	Marker location	marker properties, position	Forward Primer	Reverse Primer
T13E11	T13E11.01	primer	1755-2385	Lan & Col	AGGGCTGGGATGGGT TGGTTG	TTAATGCCGCAATGGCTGA ACAAG
T13E11	T13E11.30	primer	30628-31270	Lan & Col	CAGGTTGGGTTACTA CATGGGTTTCAG	TATGCATGCGAGTTGGTGG AGGTAAAG
T13E11	T13E11.48	primer	48187-48969	Lan & Col	AACCCCCGTAATTAA AACACAC	CGATAACGGCATGACTOCA G
T13E11	T13E11.63	primer	63886-64530	Lan & Col	ACGGCGGTTGAGAGG AGAACG	CCOCAAACGCAGCAAGAC AATC
T13E11	T13E11.78	primer	78190-78878	Lan & Col	AACAAAACAAATGCC AGGTCAAG	CTCGGCTCGCAAAGTTACA TACAG
T13E11	T13E11.93	primer	93907-94579	Lan & Col	GTTACCCCGTCTCTGA GATTGAG	TTGGGGAGCAGGATTGAT GTG
F27C21	F27C21.18	primer	18383-19057	Lan & Col	CAGGCGATTGTCCTTT ATAGGCTGTAAG	TTTTGCTGGAACGGAGGG GTAC
F27C21	F27C21.02	primer	2570-3293	Lan & Col	ACAAAAGCGAACTC GTGGAAG	TGCGTGGTTGATTATIGCT GAAAG
F9A16	F9A16.71	primer	71978-72592	Lan & Col	AATGCTTTTGCAGACTC TTTGAC	TTGTTATTTGGGTTTGGG TTGG
F9A16	F9A16.53	primer	53253-53921	Dom	CGCAGGCGGCTACTT GTTG	GATGAATTGATCCGTTGTT TTATGTCT
F9A16	F9A16.38	primer	37116-37733	Dom	CAAGGCGGGAAAACA ACTC	AATTATTTCAACGGCTCT TTACC
F9A16	F9A16.22	primer	22166-22889	Dom	GATCCAGCAACCTTA GCCTCTTC	GATCCCTCAGTTGAAATC AATCTTC
F9A16	F9A16.03		3308-4091	Lan & Col	AAGGCATCAACGTTT GTGTG	CTACCAGGTAGGTGAAACG CT
TSM2	mito border	marker	17685	Dom	ATTATTGGCTGCTGCA CTTCTGTAC	AGGGCCGGAGCTCGTATGG A
TSE7	TSE7.23	primer	109092-109688	Lan & Col	TCTCGGGAGTAGGGG CTTTGTTCTG	CGGTGCCCCTCGTCTGTA TCTG
TSE7	TSE7.73	primer	73460-74120	Lan & Col	AGGGGGCTTACAAGA ATGAAC	TCGOCATGAAAGAGGGT AG
TSE7	TSE7.58	primer	57942-58583	Lan & Col	GTAGCGGGCTCAGTCT CATAACATC	CTAAATCCGAAAACCCAA ACCAC
TSE7	TSE7.40	primer	40913-41537	Lan & Col	CGAATTCTTCAGATG ATGC	TTGCGTTACCTATAACCGAC AA
TSE7	mito border	marker	13507	Dom	AAATGGCAGAAGCAG AAGCAGGAATAG	TAATGCAAGGGTCTCGTAA TGGAAATG
TSE7	TSE7.02	primer	2919-3585	Lan & Col	GTGTGGCCTCGTGTGA CCTGAC	AGTTTGCCTCGTTGCTTGCT TATTATG
T12J2	T12J2.01	primer	1373-1998	Lan & Col	CTGGGOCATCCCTTAT CGGTTTAC	AGCGCAATCAAGCTATCOCC TACATA
T12J2	T12J2.19	primer	19369-20038	Lan & Col	ACCTCCCCCACACTTA AAAGACACTG	CTCAGAAATCCAAAACAGA GOCACAC
T12J2	T12J2.37	primer	37750-38359	Lan & Col	TGAATGCTATGAAAG ATGGATGAAAC	AGACGGCTAGTGATTGTTGG GG
T12J2	ATEDA59	marker	50592	Lan & Col	AATCGGGCTCGGTTGT GTAGAAC	ATGGCGCAATCAAAGCA ATCC
T12J2	T12J2.56	primer	56455-57533	Lan & Col		

FIG. 15A

T12J2	T12J2.73	primer	73911-74556	Lan & Col	ACTTGTAGGCCCTTG ATGTTCTG	TGCTTTGTGTTGCTTGTATTCTATTAG
T14C8	T14C8.1	primer	8862-9544	Lan & Col	AOGAACCGAACGACC ACTG	ACGCCTTGATTCCATTTCCTTAC
T14C8	T14C8.6	primer	10837-11485	Lan & Col	GAOGGGTTGAAAGAA AGCACAG	AGAAGATGATGGCAAGTT ACGAAGAG
T14C8	T14C8.7	primer	45334-46016	Lan & Col	CGACCATTACGACGCC ATAC	AAGGCCATTCAAAGAGTT AGGAGAG
T14C8	T14C8.3	primer	46672-47283	Lan & Col	ATAGCGTCAGGCGCTCA TTTCAG	ACCCTTTGCTTGTATTTCTTGTG
T14C8	T14C8.8	primer	48833-49538	Lan & Col	CAAATGGGGGGAGGG GG	TGTGGCAAGTCATGGGTAA GGAG
T14C8	T14C8.9	primer	71115-71878	Lan & Col	GGTGGGGGAGAACGA TGAC	CCGGTTCTGCGATATTG GTTAG
T14C8	T14C8.5	primer	73841-74456	Lan & Col	TTCCCGCGCCAAAAG GTG	AGAGTCAAGCCAAGCAAT AACAGG
T14C8	T14C8.4	primer	75442-76122	Lan & Col	AAGAAGGCTGGAAAT TGGTTGAG	GAGGGAAAGTAGATGCAG AATGTC
F7B19	F7B19.1	primer	108-757	Lan & Col	AAGGTCGGGGGTGG TGAG	GGGTCAGTGTGATGTTG AGTG
F7B19	F7B19.12	primer	13831	Lan & Col	TAACGTCATCAGGGT AGGAAAC	TTACAAGCGAGAAAAGAT GAGAAC
F7B19	F7B19.27	primer	27033	Lan & Col	CCCCGCTGAAC TGACT GACTACGAG	TOCGGCCAACGATAAGATA CGAC
F7B19	F7B19.2	primer	30189-30791	Lan & Col	GCTCGTTGGGTTGCT GTTC	COOGCGTGGCTGCTTTAG
F7B19	F7B19.43	primer	43142	Lan & Col	CAGGGAAAGTGGTTG GATTGATG	TGOCCTCTCGGAACCTGGT G
F7B19	F7B19.3	primer	55446-56209	Lan & Col	ATTTGTTGCCATCGT CCTTC	TTATCAATGTATTCCCTG TGTATC
F7B19	F7B19.59	primer	59771	Lan & Col	TTGAAGAATGCGCAT AGCGTAG	TCTGGGATGAAGAGAAAAG AGAACTGTC
F7B19	F7B19.4	primer	70859-71492	Lan & Col	AAAAACCGTGAGACC CATAAATG	TOCAAATCGCGAAAGTGAC AG
F7B19	F7B19.77	primer	77633	Lan & Col	ATAACCGAAGAAGCC GAGAAATC	ATOCGGAGACGAAAATGA ACTTAG
F7B19	F7B19.95	primer	95351	Lan & Col	TCGATTGCCAGCAGA GTCAGAAC	TGGGGCTTGTAGGAGG AGTAAC
F7B19	F7B19.5	primer	98977-99658	Dom?	AGATGGGGTGTATTG TTGTATG	GGGGTCAGTGTATTGCTG TAG
F7B19	F7B19.6	primer	112337-113039	Lan & Col	AGGGCGAAACTTGA GAGCAC	TATGGGTTTGAAGAGGG AAGG
T15D9	T15D9.3	primer	2985	Lan & Col	AGGGTGGCGGTGTG GAG	TOCTGGCAAATTGCTTCT CGTTG
T15D9	T15D9.1	primer	12299-12914	Lan & Col	GCTCGGCATCTCTC GTC	GAAGTOOCATGCCTATCCC TG
T15D9	T15D9.19	MARKER	18991	LAST RECOMBINANT Col	GAGGCCCTCTATGAGC CTACCTGTC	AGAGATCCCGTGTACTAA AGCGTATTCIG
T15D9	T15D9.2	primer	37103-37728	Lan & Col	ATGGGGTAATCGAAT AGTGTGGTC	TCCTAGGGCATCCGTTTT ATCTC
T15D9	T15D9.3a	primer	52189-52811	Col	CGGAGAAAGTGGGG GTTAGTTG	GAGAGGTTGGGTTGGGCT TGTAG
T15D9	T15D9.55	primer	55134	Lan & Col	GCTCGGAACCCACAC TTTGCTC	ATGTTATCGTCGCGCGT TTATG

FIG. 15A (cont'd)

T1SD9	T1SD9.73	primer	72993	Lan & Col	AACCGGTTGATAGTA GAOGAGATG GTAAGACGGAGGCCCC TGAAG	TCCGGGGTTGCGATAGAG AACATGTTAAAGCCAATAC CCTCTC
T1SD9	T1SD9.4	primer	73930-74552	Lan & Col	TCGGAAAGGCTAGAG ATGGGTAACTG	ATTGGACTATATGGGCTC GTGAC
T1SD9	T1SD9.5	primer	86724-87494	Lan & Col	TTTGC GGATATTCTAA AGGTGATG	TACTATTGCGCTGCTGTTG AGG
T1SD9	T1SD9.93	primer	93763	Lan & Col	GGATGCAATGCCCGTT ATGATG	TOGAGGGAGGATGCTGAGT ATG
F7K9	F7K9.3	primer	21647-22276	Lan & Col	CAAAGCGGCCATCTC CTTC	GCAATTCATACCGCCACAT CTG
F7K9	F7K9.2	primer	12216-12843	Lan & Col	ACTATGCGTGGGTGG CTTGTG	CAGGGGCATGCGGAATCTC
F7K9	F7K9.1	primer	3590-4226	Lan & Col	AGCGAGGTATCTATC AGGGTTG	GATTAGGTOCGCTCTCTTCC AGTTAG
F12P23	F12P23.3	primer	61772-62430	Lan & Col	CTTCATTTGCATCATC GTTATTAG	GGTGTGAAGTCTGAGGCTC CC
F12P23	F12P23.5	primer	44870-45511	Lan & Col	TACCCATGCGTTGACT GCTG	TTCTGAAACGTGTGTGTCT ATTTG
F12P23	F12P23.4	primer	40880-41507	Lan & Col	TOGTCGAACATAATTGG TGGGAAC	TOGGGAAGAGTGCTAAG AG
F12P23	F12P23.2	primer	22431-23107	Lan & Col	ACAATGGCAACAATG GGCTGATAG	TTCGGGTCGTTGTCCTAA AG
F12P23	F12P23.1	primer	3352-4026	Lan & Col	CTCGGTCTGGTAATGT GAAGTGGT	ATACGTCGOGGGAGTTGAG
T4D8	T4D8.5	primer	81647-82250	Lan & Col	GOOCGTCTGCCATCTC TATC	CGOCTOCTCACAGGCCACA A
T4D8	T4D8.3	primer	47146-47883	Lan & Col	AAACTCGCCGCGCTCGT GTAAC	AGGATAAAACCCATAGCTTG ACCAG
T4D8	T4D8.2	primer	21848-22453	Lan & Col	CTCGTCTCATCCAAAT CGTCC	CAATATAACCCGGTCCCGT GAAG
T4D8	T4D8.1	primer	18915-19589	Lan & Col		

FIG. 15A (cont'd)

Sequenced clone	marker name	marker or primer pair	Marker location	marker properties, position	Forward Primer	Reverse primer
TSH22	TSH22.00	primer	248-2654	Lan & Col SSLP	TTTGTACCCCTTGCGC TCGGACTGG	AAGGGGACAOGCAC AAAAACGCTCTC
TSH22	TSH22.21	primer	21508-22868	Col Dom	GTOGOCTTGGTCTAG TAAATGG	CTGTTCTGCTGGCTTC TGCTG
TSH22	TSH22.41.3	primer	35072-35719	Lan & Col	TTGOGAGAAACTTGCG AGGAACATC	TTAGAAAAGCATCG GGCAACAAAC
TSH22	TSH22.41.4	primer	64404-65591	Col Dom	CTOCCCTGGCATATTITG TGACTG	GTTGOCAAAGTTCTC TACGATTIC
TSH22	TSH22.65	primer	65036-66470	Lan & Col	TCAACCTAAGGCAAAT TTCTAAG	TTAAATGAAGGOC AACACC
T7M24	T7M24.04	primer	4816-8214	Lan & Col	GTGCATGGCTAAACA ACAG	GTTCTCATAAACGGGT CAGTOC
T7M24	T7M24.46	primer	46240-47868	Col Dom	ATGTTATGTTACGTC GGGGTTGTGTGTTG	TCTGGCTCCGGATG CTATTTGTATTITC
T25H8	T25H8.01	primer	1889-2953	Lan & Col	TGACGAAGAAGGGGG AAAAGTTG	TGACGTGGTGAAG TAGGCTGTGAAG
T25H8	T25H8.17	primer	16846-17990	Col dom	ACTAAAGGCCAACTG AAGAGGAAG	AAACCGGCCACTACC GOCATAA
T25H8	T25H8.22.9	primer	22482-25074	Ler & Col	AATCGATCOGTCTTC ACCAAC	CTTOCTGCAGCGTTC CTTC
T24M8	T24M8.65	primer	65402-66309	Lan & Col	CGGCATGACCAAAACCC TAAACTC	AGGGGAAAGATGAA AGATGAAATAAG
T24M8	T24M8.54	primer	53851-54655	Col Dom	TAATAAAACGCTCAGC CACCACTCTAAG	GGGCTGCTCAATCT CGCTACAC
T24M8	T24M8.43	primer	42439-43274	Lan & Col	CTTAAATTGCGCGTGA TGATGGTTG	GATGGAGTOGGCAA AAGATAGGATG
T24M8	T24M8.22	primer	22640-23386	Lan & Col	ACGAGAAGGOGAAAAC CGAAGATAG	CGAACCTAAACCAA AOCTAAACTGAATC
T24M8	T24M8.09	primer	5961-8374	Lan & Col	GAGTCTGGGTAAATT TCTCTCTOG	ATTCTTGCCTGTCCCC TGGTGTAAAC
T24H24	T24H24.82	primer	82814-82890	Ler & Col	AGACAGCGGAAAGCA ATGGTGG	TCTCGCTGCTGGACA TACTCACTCAC
T24H24	T24H24.66	primer	66082-66765	Ler & Col	GTGGAAGGACCGGAGT TGTAGAC	TGTGGATGGTTATT GGAGGG
T24H24	T24H24.48	primer	47836-48636	Ler & Col	COOCAGOCATTGAG TGAGTAG	AGOGGGGGOCCTTGA GAGTATC
T24H24	T24H24.11	primer	11212-11867	Ler & Col	GGCGGGCTAGTTATGT TGATTGAG	TACCAOGGOCOOGA GATACTAAC
T27D20	T27D20.77	primer	77681-78420	Lan & Col	TGCGCAAATGGGACA CG	CGGGGAGGGCTGGG AATC
T27D20	T27D20.64	primer	64198-66686	Ler & Col	ACCTGOGATAGAGTTG TGAGTTC	CTGCTTTGCGATA ATAGTC
T27D20	T27D20.51	primer	51084-51783	Lan & Col	CCGCGGGCTTATGCTG AG	GAAGAGAAATGCGC TGTGAGTCC
T27D20	T27D20.41	primer	41203-42770	Lan & Col	GTGATTGCGAGGACAT TGAGTG	TACATTCTTGCAGGCC ATTTTGTG
T27D20	T27D20.06	primer	6107-6887	Col Dom	TCGAATGGCTGAAAGA AAAGAATAAGAG	AAAACGGGTGGCGG AGAATG
T19B17	T19B17.96	primer	96402-97060	Lan & Col	CGTCTCCCGTGAGGTG GC	ATTTTCATAATTATT TGGCGTGTGC
T19B17	T19B17.77	primer	77318-78093	Lan & Col	CGAACCCATCCGAAC TAAC	TGOCACAAACAAACT CCACTATG

FIG. 15B

T19B17	T19B17.59	primer	59092-59808	Lan & Col	AGCGGTCAATGTTCTT CAATGTCGTAG CTG0000GACCACCTT TCAAC	TATGGGGGGGGAGT CAGGAG TTGGGGATTGTTAT GCTGTTCTC
T19B17	T19B17.44	primer	44057-44788	Col Dom	ATGGGGCGCGTCTTCTT CAG	CAGGTTCAAGGGTT CAACTATAATC
T19B17	T19B17.30	primer	30680-31352	Lan & Col	TCATTTGCGTCTAGAG GTGGAGTGC	GGGGTAGAAAGAAG CGAGAGGGATAG
T19B17	T19B17.11	primer	11260-12044	Lan & Col	CAOGGCATCATTCATC AAACGAG	GTAAGATCCGGCTG AATAGTGGTGG
T26N6	T26N6.12	primer	12724-13462	Lan & Col	TCTTGGATGACGACA ACGACAC	ATTCTGCTGCTGCTG ATTOCTG
T26N6	T26N6.27	primer	27839-28536	Lan & Col	GACGGCCTTTTCATTCT CACACAG	TTTCATATTTGCTCA TCTAACCCCTTC
T26N6	T26N6.42	primer	43996-44639	Col only	GCCTGAAACCTACAC CTCCAC	AGTCGCCGTAGCAA ATGAAACC
T26N6	T26N6.59	primer	59333-59938	Col only	ATGGGGGCOCTTGACT ACTGAG	TCCGGAGACGATTTT GATGAC
T26N6	T26N6.74	primer	74460-75083	Lan & Col	TTCCCGCATGCATTAG TTCTGTG	TTGOCATCATCTTTC TGTGTTTGTCTATC
T26N6	T26N6.93	primer	93352-93986	Lan & Col	GCAGACGGCGAGGACA CAGACAG	CAGCCTAAACCAT TTGTTTTGAAG
F4H6	F4H6.44	primer	42567-43173	Lan & Col	GTTOCAACGCTAGCAA GGTCTG	AGGGGCCAACATGC ACTACAAG
F4H6	F4H6.60	primer	60209-60835	Lan & Col	ACAAATCAGAGGCCA AACTCAATG	TGGGCGAATAACA GCAAGTCC
F4H6	F4H6.82	primer	82859-83642	Lan & Col	ATCCTAACGCCAAAT GTCAAC	TTAAGTGGGTGCG GTTCAAATAC
F4H6	F4H6.100	primer	100331-101001	Lan & Col	ATGCCCTATAAGAAAG OOCAGTC	CGOCTATCTGGTG TCTCGTC
T19J18	T19J18.12	primer	12781-13435	Lan & Col	CAGCGCTGTACAGTGG TCAAATG	CGTGGGTCAAGTGG GTCAGG
T19J18	T19J18.27	primer	28093-29954	Lan & Col	CATTACTTACCOGCTTC CGTCTTATC	AATGTTAGTGCAG TTTATGGTTGTC
T4B21	T19J18.71	primer	6380-7009	Lan & Col	TGTGCGCTTACTCCATT CGTCAAC	CGGCCGOCTTCATGT ATCTATCTC
T4B21	T19J18.42	primer	20045-20648	Lan & Col	SSLP polymorphic	AATTGATTTGGGT TTCTCTGTC
T4B21	T4B21.20	primer	21757-22522		AATAGGCTTTCCGGT GCTCTC	ATTATAGGCCAAT GACCCAATCG
T4B21	T4B21.35	primer	37346-38074	Lan & Col	GTGAAAGGAGCAGCA GGAACAGTG	AGAAGGTGAGCAA AGAGATTAGTG
T4B21	T19J18.57	primer	38498-39157	Lan & Col	CTATCAAACCGCAGTCA AAGAAAGG	CAOGCCACTCTTCAT CTCCCTTTC
T4B21	T4B21.52	primer	54320-55077	Lan & Col	ATAGACAAAATTGGCA ACACATACC	GCTTTCCCCACCAAT ATCCTTTC
T4B21	T4B21.68	primer	69927-70543	Lan & Col	TTGTCATTGGGGCTGTC TCTATC	CGCTACCGCATGGGT CTATTTG
T4B21	T4B21.83	primer	85772-86299	Lan & Col	AAGCCCGOGATTGGT TC	ATGTGGGGCAAAT AAATCAAAAC
TIJ1	TIJ1.08	primer	8862-9483	Lan & Col	TAGAGCGGTAACTTAA CGAATGTGC	CAGAGCCGGATGAG AAAACAGAGC
TIJ1	TIJ1.23	primer	23155-23843	Lan & Col	TGGAGGGCTTGCATGT GAGAGTG	AACTCCGACTGAAG GTATAGC
TIJ1	T15D16	marker	38027	CAPS	AATCAATTGGTTCTA CTTTTAG	TTAAGGGTTGGGT TCATCTGTCAC
TIJ1	TIJ1.39	primer	39177-40174	Lan & Col	ACCGGCTCATTGGCTA AAAAGTTT	

FIG. 15B (cont'd)

T1J1	T1J1.50	primer	50248-50937	Lan & Col	AAGTCTGGAAAGAGG ATGAGAAAOC	ATAAAGTAACGCC CCATCAATAG
T32N4	T32N4.09	primer	10175-11108	Lan & Col	GGCAGATACGGCGGGT CCATAC	TCTGAATCGCATCTC CTCGTGTAAAG
T32N4	T32N4.24	primer	24917-25724	Lan & Col	CGTGGGAGCTGCGTA GAAG	GCGGTTGATGATGA AAATAGGGTG
T32N4	T32N4.45	primer	45840-46451	Lan & Col	OGCCCCCTCAGGTTAG TOC	GTTTGCCTCCOCTCC AGTG
T32N4	T32N4.46	primer	46637-47558	Col Dom	CTGGCGTACGAGAGTG CTTGTG	ATGACCCCTGTGCTT TGCTCTC
T32N4	T32N4.60	primer	60777-61645	Lan & Col	CTCTCGGGGTTGCTTC GG	GCGGGCTGGTGCT 'ATT
T32N4	T32N4.66	primer	66497-67374	Col Dom	AAAGAACGAAACAA CATAACCATAG	GGAGACAAAGAAAT CGGCAGAGTAG
T1J24	T1J24.114	primer	114825-115648	Lan & Col	CATGCGCGAATTACGA CACCTC	GCGCCAATCTCTA AACAAACACTC
T1J24	T1J24.90	primer	90665-91646	Lan & Col	AATGAATGGGACGAA AACGAAACT	GCATCCCCGGTACT GGTGAG
T1J24	T1J24.81	primer	80921-81638	Col Dom	AATCGCGACTTTGCT TCC	TAAACTACTATGCCA CCACCACTACC
T1J24	T1J24.79	primer	79569-80351	Lan & Col	GTGTATCGGGGCCAT CTCAG	GCTCAACATCGCG CAATCT
T1J24	T1J24.61	primer	60440-61245	Lan & Col	COCAAAGTATAAGCGC CCACCTA	TAAGCGCCTCACITC ACCATTG
T1J24	T1J24.51	primer	51061-51798	Lan & Col	TOCGGAAGGAGGCCACA TAAG	TOCCCAGACCTCTCG TTGAC
T1J24	T1J24.27	primer	27855-28895	Lan & Col	GGCGGGAGTTGGTCA TAAGG	TCAATTCAATCCCC GCTGGTC
T1J24	T1J24.23	primer	23943-24800	Lan & Col	TGGTGGGCATATTGT TTTCITGTG	CGGCGTGTCCCTG GTTCC
T1J24	T1J24.01	primer	683-1663	Lan & Col	TTCOCCAAAAATCGTT CAGC	ACATCGCCTCTCAA CCCACTC
F6H8	F6H8.70	primer	unknown-unique seq	Lan & Col -	ACCCGAGAAGCGGATG ACC	AAATTTGGGGAGT TGATAAGTGTG
F6H8	F6H8.51	primer	unknown	Lan & Col -	GCTAAGCCATCCAAGT TCTGAG	GTTTGAATCTTGGC TTTGTATGTTC
F6H8	F6H8.94	primer	unknown	Lan & Col -	CGTGCAGGGGAGTGTG GTG	CAATTCAATCCCC CTGGTC
F6H8	F6H8.114	primer	unknown	Lan & Col -	CGGGCTGCCCTCATG TATCTATC	GOOCATTGTGCGCT TATTCTATTC
F21I2	F21I2.82	primer	82463-83233	Lan & Col	TTTTGGGGATAGGGAA TTGAGTGTG	TAAGGCGAAGGAGA GGTTTGAAGTTG
F21I2	F21I2.70	primer	70415-71220	Lan & Col	TGCTGGCCTTGTCACT TATTGTGTC	GGGGGGGACTGCC TACTC
F21I2	F21I2.68	primer	68874-69938	Lan & Col	CCAGACCGGGGGAAA GCAATAC	TAGCGGGGTGGTC TGTGCG
F21I2	F21I2.50	primer	50288-50891	Lan & Col	TGACTATAGGGCGGT TGTGGTAAG	TTGGCTTGGAGTTG CGTGTGTC
F21I2	F21I2.48	primer	48960-50345	Col	ACCTTCTCTCTCAACG CAACCTCACC	AAOCCTTGGCATAT AACTCCGACTC
F21I2	F21I2.29	primer	29895-30702	Lan & Col	GTGGGGTCTGAGTGGTG TGGTAG	GGATCCCTGTACT TAAGGCTATTTC
F21I2	F21I2.02	primer	2313-3098	Lan & Col	AAAATCCCTCCCGCGTC AACATC	CATCATCCCAATCCC AAATACAAGTC
F14G16	F14G16.100	primer	3496-4174	Lan & Col	AAACTTCCGCACTCT CCTCTATTATG	ATTTGGCTAAGGCG TTGATGACTC

FIG. 15B (cont'd)

Chromosome IV

F14G16	F14G16.81	primer	22905-23604	Lan & Col	CGTCTTCATGGCTTC GTTCAG	TGGGGAGGGAGGA TTCTTG
F14G16	F14G16.66	primer	37689-38299	Lan & Col	AGCGATTGTACCCCA CCATTC	GCTCCGGCAATCTTC TTCCCTCTC
F14G16	F14G16.49	primer	54150-54777	Lan & Col	ACTTTGGGCAATGAAG CGTATG	AAACCCCTTAGGATT ATTCTGAGTGTTC
F28D6	F14G16.32	primer	8172-8825	Lan & Col	TCTOGCAGTTGCAGAG ATGGTG	TCCGGAGAAGAGAAG AGTGATGG
F28D6	F14G16.66	primer	9445-10055	Lan & Col	AGCGATTGTACCCCA CCATTC	GCTCCGGCAATCTTC TTCCCTCTC
F28D6	F14G16.16	primer	24251-24873	Lan & Col	TGGTGTATTTTGCTTT GTTTCTCAGG	GTTGTTCCGCTATGG GGCTAAGG
F28D6	F14G16.01	primer	39801-40577	Lan & Col	GTGCGGAAATGTCTGG GCTC	AATCACTCAACCGC GAAAATCTATC
F28D6	F28D6.42	primer	42565-43225	Lan & Col	ATCAAOCOCCAAATCA CCAGAAC	AATCGCGGTTAGCC ACTTCATC
F28D6	F28D6.50k	MARKER	50323	Col Dom	CGGCTGGCTTATTAT CTGAGTTG	TTCGGGAAGCCTGT GGAAG
F28D6	F28D6.58	primer	58994-59869	Col Dom	ACCCCGAGCTCAACTT CTTAGG	GGACGGGAGATGGG ATTACC
F28D6	F28D6.76	primer	76571-77289	Lan & Col	AGAATAGGAGCTGGG AGGTCAAAC	ATACTTAGATGCAA TGGGTGTGGTG
F28D6	F28D6.93	primer	93823-94512	Lan & Col	CCCCATCCTGCCGACA TAAAG	TACTCCGCATCATCT TCCATCTCTTC
F28D6	F28D6.120	primer	7985-8702	Lan & Col	GAGGGCGAGTAGTTG AATCTGC	CCTAAGCCCGAAAC CAAGTGAG

FIG. 15B (cont'd)

CEN4

6

CEN4

5

4

7

6

5

4

3

2

1

100kb

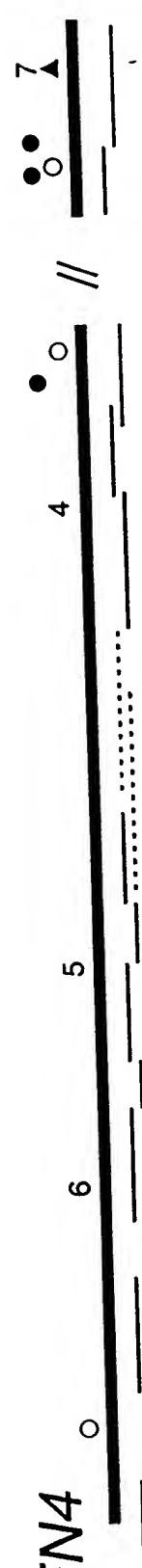


FIG. 16

CENTROMERE 2

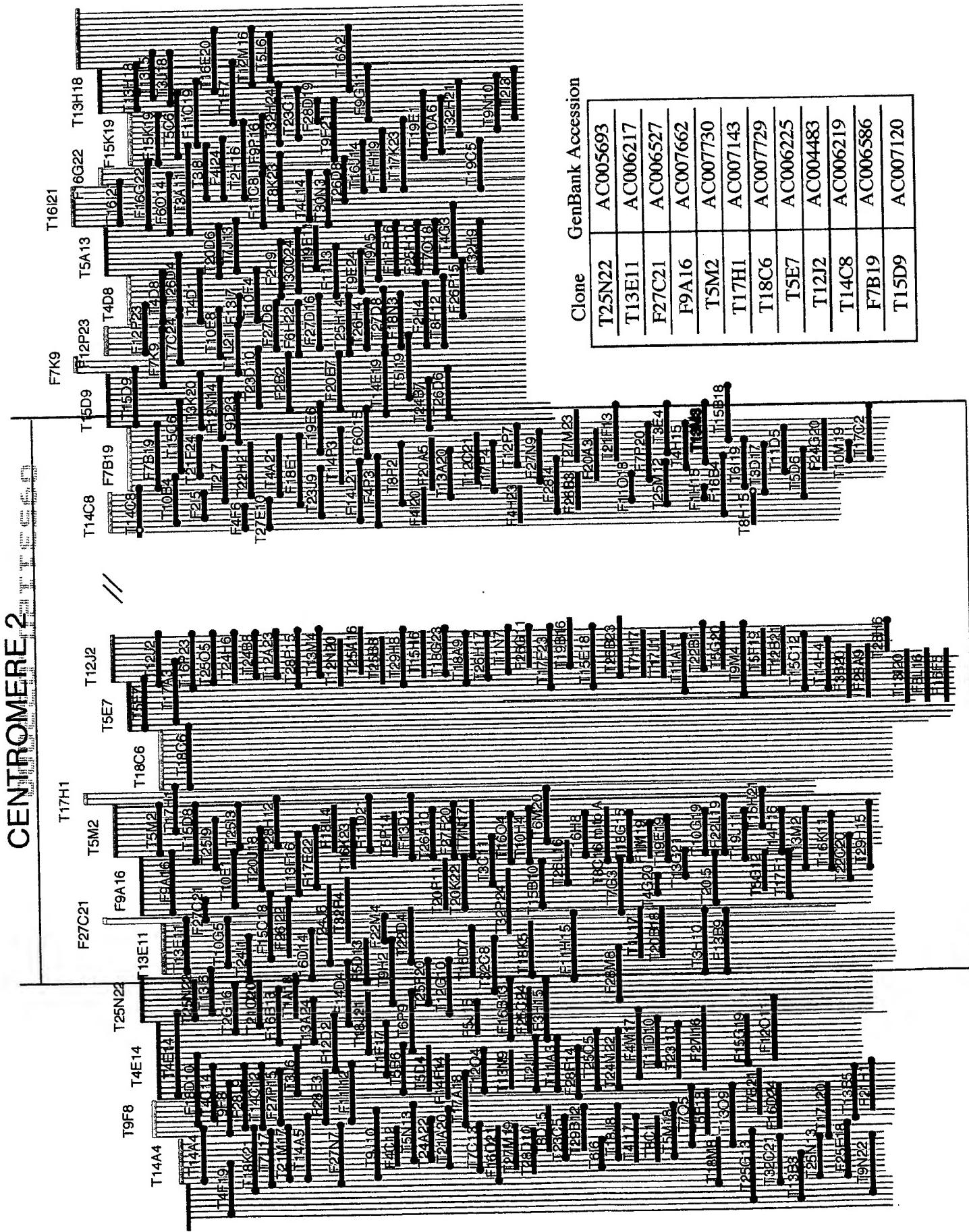


FIG. 17

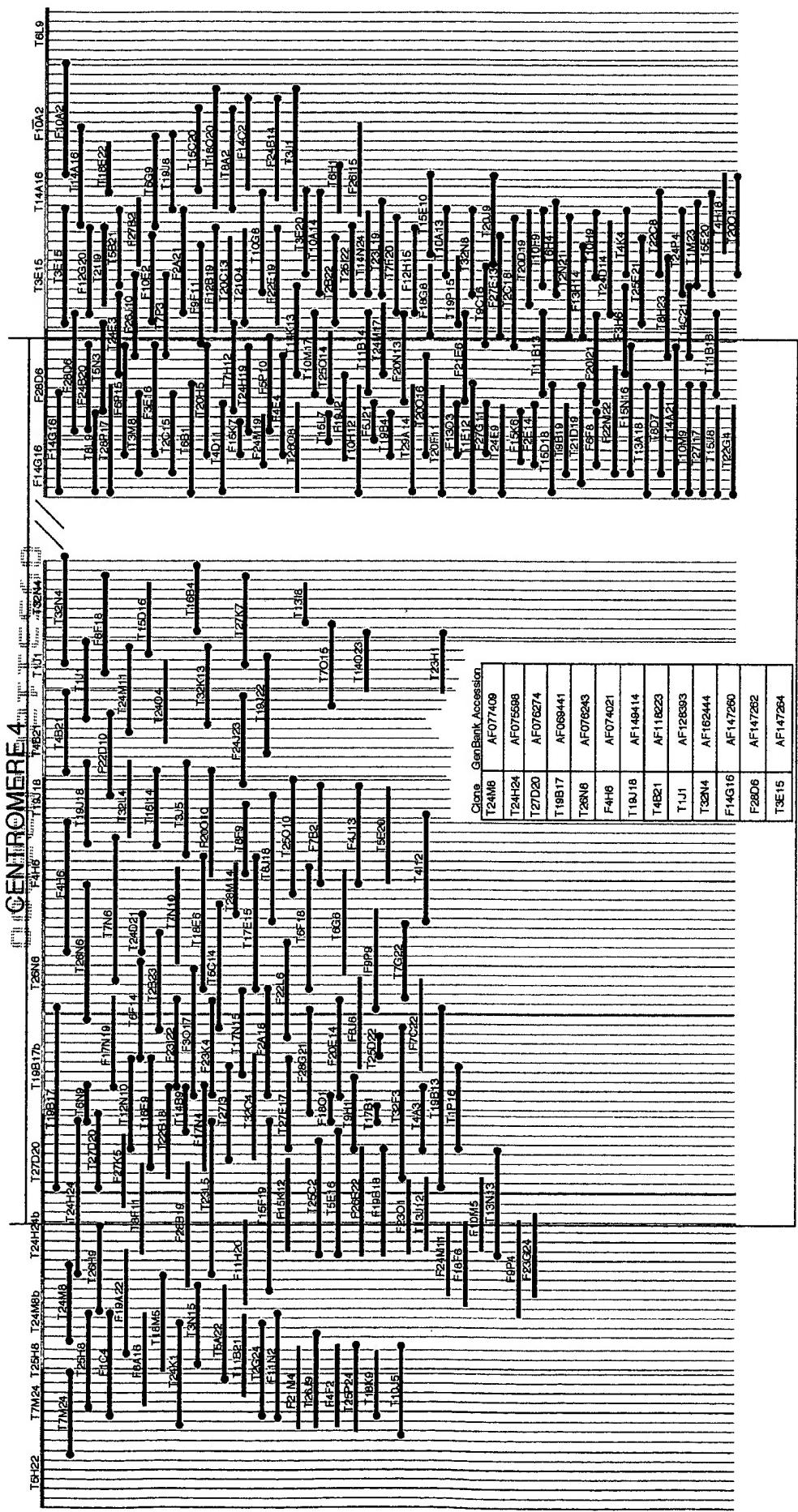


FIG. 18

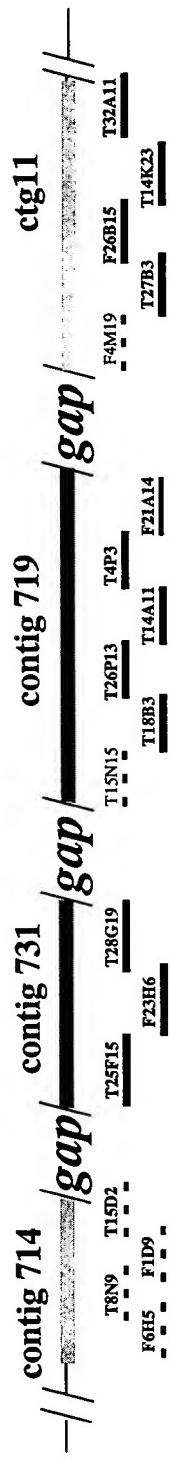
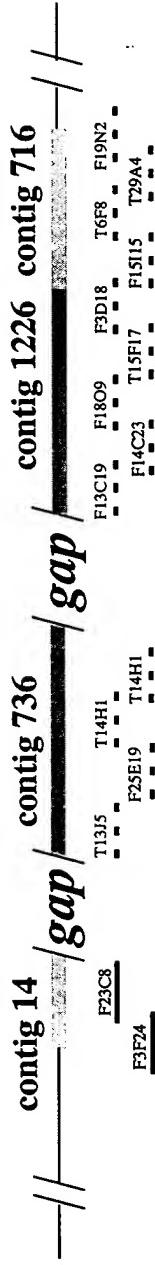
CEN 1*CEN 3**CEN 5*

FIG. 19

CENTROMERE 2

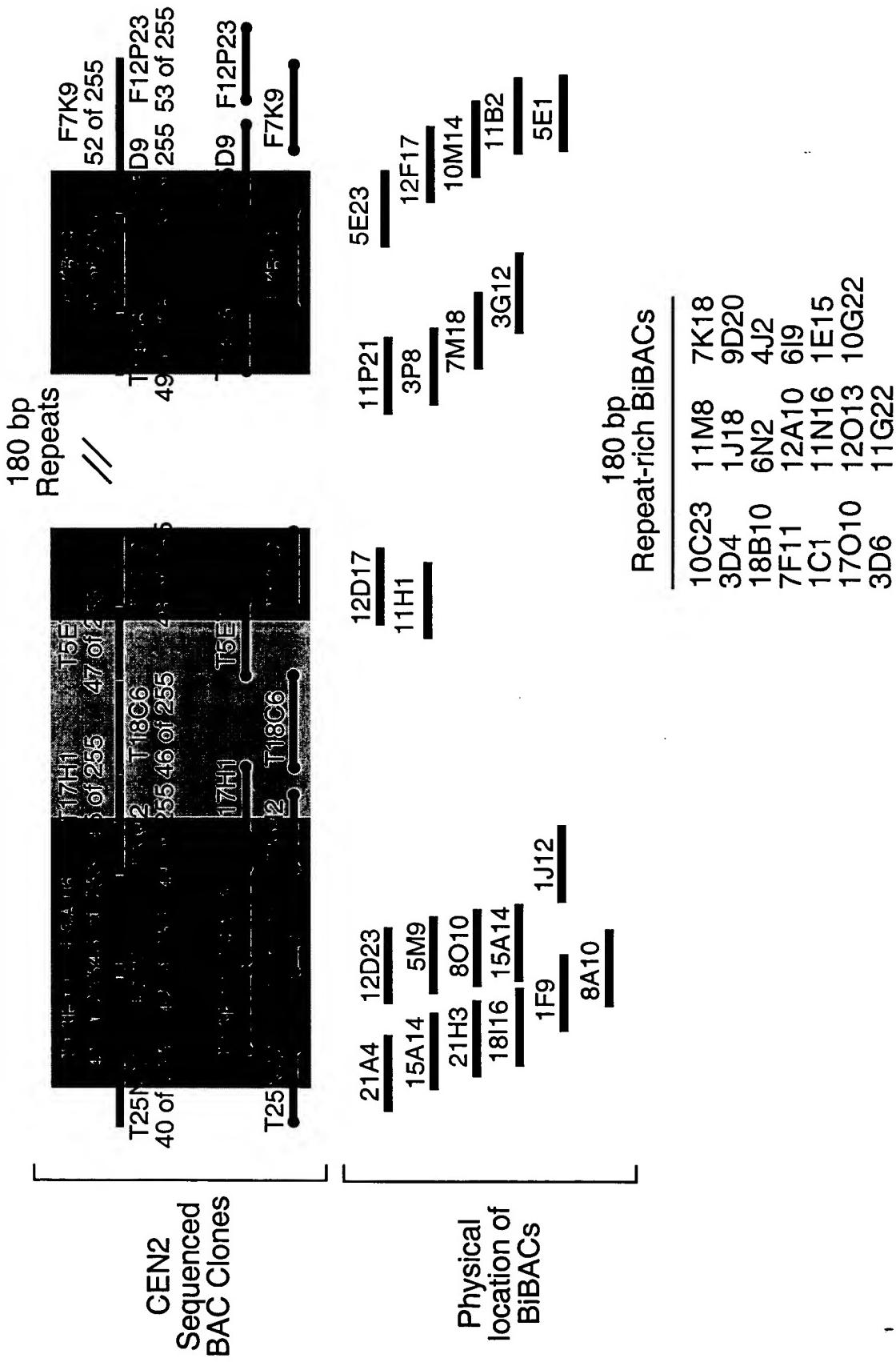


FIG. 20

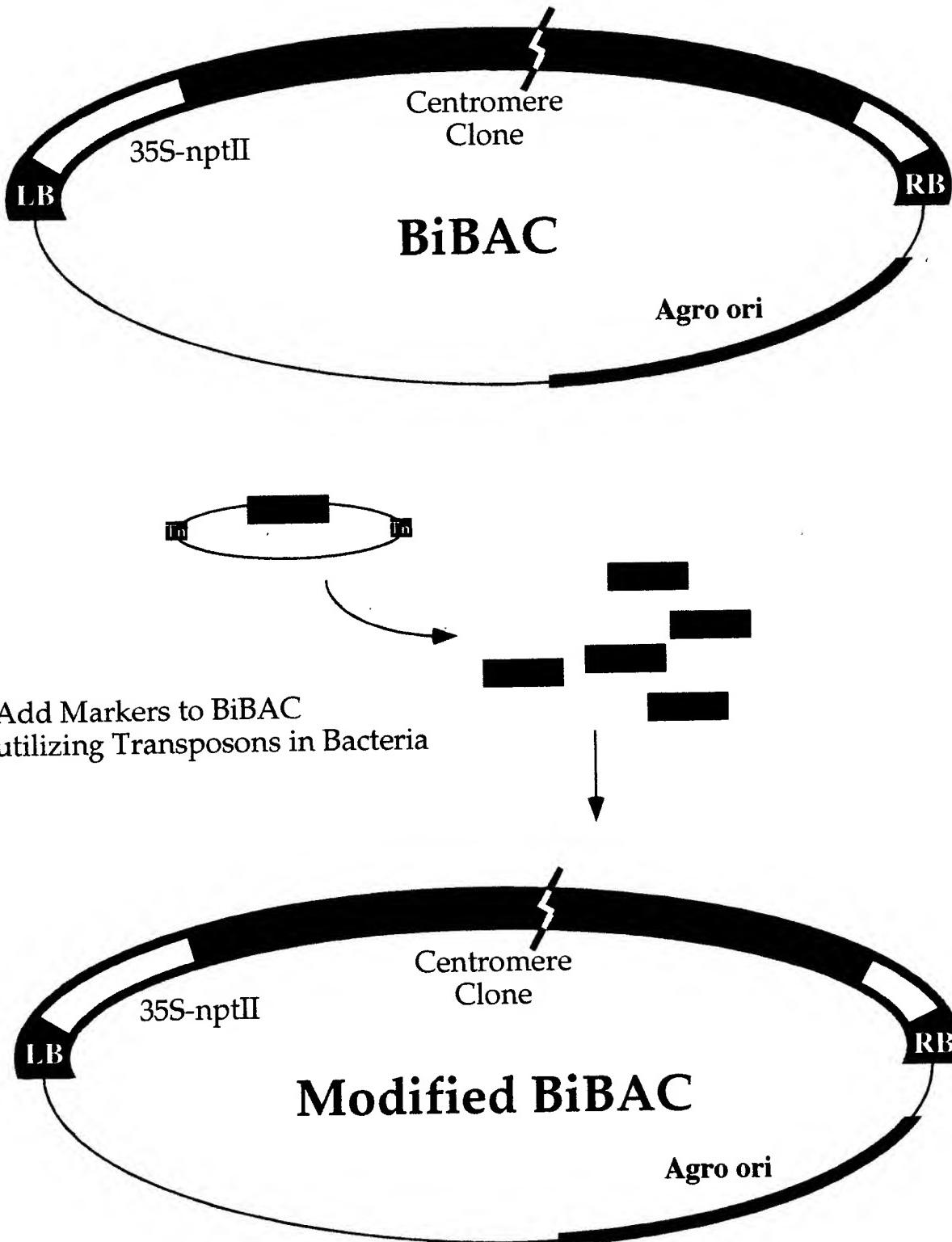
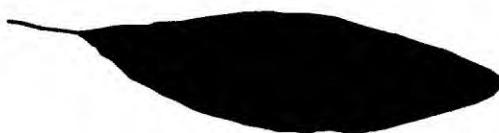


FIG. 21

Measuring centromere functions in plant mini-chromosomes

Qualitative assays

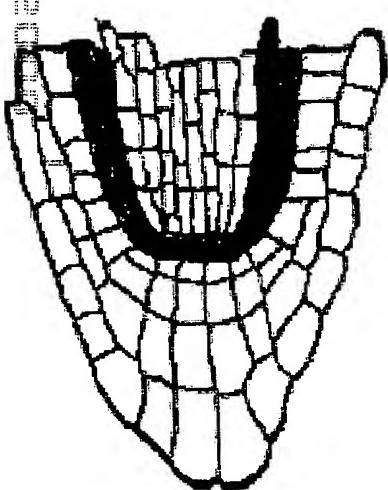


Stable



Unstable

Quantitative assays



Mitosis

FIG. 22



Meiosis

FIG. 23A

FIG. 23B (cot'd)

Alignment Workspaces of CHRA-1, using Chatali method with Weighted Neural Network.

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	Final Q₁ Q₂ Q₃ Q₄ Q₅ Q₆ Q₇ Q₈ Q₉ Q₁₀ Q₁₁ Q₁₂ Q₁₃ Q₁₄ Q₁₅ Q₁₆ Q₁₇ Q₁₈ Q₁₉ Q₂₀ Q₂₁ Q₂₂ Q₂₃ Q₂₄ Q₂₅ Q₂₆ Q₂₇ Q₂₈ Q₂₉ Q₃₀ Q₃₁ Q₃₂ Q₃₃ Q₃₄ Q₃₅ Q₃₆ Q₃₇ Q₃₈ Q₃₉ Q₄₀ Q₄₁ Q₄₂ Q₄₃ Q₄₄ Q₄₅ Q₄₆ Q₄₇ Q₄₈ Q₄₉ Q₅₀ Q₅₁ Q₅₂ Q₅₃ Q₅₄ Q₅₅ Q₅₆ Q₅₇ Q₅₈ Q₅₉ Q₆₀ Q₆₁ Q₆₂ Q₆₃ Q₆₄ Q₆₅ Q₆₆ Q₆₇ Q₆₈ Q₆₉ Q₇₀ Q₇₁ Q₇₂ Q₇₃ Q₇₄ Q₇₅ Q₇₆ Q₇₇ Q₇₈ Q₇₉ Q₈₀ Q₈₁ Q₈₂ Q₈₃ Q₈₄ Q₈₅ Q₈₆ Q₈₇ Q₈₈ Q₈₉ Q₉₀ Q₉₁ Q₉₂ Q₉₃ Q₉₄ Q₉₅ Q₉₆ Q₉₇ Q₉₈ Q₉₉ Q₁₀₀ Q₁₀₁ Q₁₀₂ Q₁₀₃ Q₁₀₄ Q₁₀₅ Q₁₀₆ Q₁₀₇ Q₁₀₈ Q₁₀₉ Q₁₁₀ Q₁₁₁ Q₁₁₂ Q₁₁₃ Q₁₁₄ Q₁₁₅ Q₁₁₆ Q₁₁₇ Q₁₁₈ Q₁₁₉ Q₁₂₀ Q₁₂₁ Q₁₂₂ Q₁₂₃ Q₁₂₄ Q₁₂₅ Q₁₂₆ Q₁₂₇ Q₁₂₈ Q₁₂₉ Q₁₃₀ Q₁₃₁ Q₁₃₂ Q₁₃₃ Q₁₃₄ Q₁₃₅ Q₁₃₆ Q₁₃₇ Q₁₃₈ Q₁₃₉ Q₁₄₀ Q₁₄₁ Q₁₄₂ Q₁₄₃ Q₁₄₄ Q₁₄₅ Q₁₄₆ Q₁₄₇ Q₁₄₈ Q₁₄₉ Q₁₅₀ Q₁₅₁ Q₁₅₂ Q₁₅₃ Q₁₅₄ Q₁₅₅ Q₁₅₆ Q₁₅₇ Q₁₅₈ Q₁₅₉ Q₁₆₀ Q₁₆₁ Q₁₆₂ Q₁₆₃ Q₁₆₄ Q₁₆₅ Q₁₆₆ Q₁₆₇ Q₁₆₈ Q₁₆₉ Q₁₇₀ Q₁₇₁ Q₁₇₂ Q₁₇₃ Q₁₇₄ Q₁₇₅ Q₁₇₆ Q₁₇₇ Q₁₇₈ Q₁₇₉ Q₁₈₀ Q₁₈₁ Q₁₈₂ Q₁₈₃ Q₁₈₄ Q₁₈₅ Q₁₈₆ Q₁₈₇ Q₁₈₈ Q₁₈₉ Q₁₉₀ Q₁₉₁ Q₁₉₂ Q₁₉₃ Q₁₉₄ Q₁₉₅ Q₁₉₆ Q₁₉₇ Q₁₉₈ Q₁₉₉ Q₂₀₀ Q₂₀₁ Q₂₀₂ Q₂₀₃ Q₂₀₄ Q₂₀₅ Q₂₀₆ Q₂₀₇ Q₂₀₈ Q₂₀₉ Q₂₁₀ Q₂₁₁ Q₂₁₂ Q₂₁₃ Q₂₁₄ Q₂₁₅ Q₂₁₆ Q₂₁₇ Q₂₁₈ Q₂₁₉ Q₂₂₀ Q₂₂₁ Q₂₂₂ Q₂₂₃ Q₂₂₄ Q₂₂₅ Q₂₂₆ Q₂₂₇ Q₂₂₈ Q₂₂₉ Q₂₃₀ Q₂₃₁ Q₂₃₂ Q₂₃₃ Q₂₃₄ Q₂₃₅ Q₂₃₆ Q₂₃₇ Q₂₃₈ Q₂₃₉ Q₂₄₀ Q₂₄₁ Q₂₄₂ Q₂₄₃ Q₂₄₄ Q₂₄₅ Q₂₄₆ Q₂₄₇ Q₂₄₈ Q₂₄₉ Q₂₅₀ Q₂₅₁ Q₂₅₂ Q₂₅₃ Q₂₅₄ Q₂₅₅ Q₂₅₆ Q₂₅₇ Q₂₅₈ Q₂₅₉ Q₂₆₀ Q₂₆₁ Q₂₆₂ Q₂₆₃ Q₂₆₄ Q₂₆₅ Q₂₆₆ Q₂₆₇ Q₂₆₈ Q₂₆₉ Q₂₇₀ Q₂₇₁ Q₂₇₂ Q₂₇₃ Q₂₇₄ Q₂₇₅ Q₂₇₆ Q₂₇₇ Q₂₇₈ Q₂₇₉ Q₂₈₀ Q₂₈₁ Q₂₈₂ Q₂₈₃ Q₂₈₄ Q₂₈₅ Q₂₈₆ Q₂₈₇ Q₂₈₈ Q₂₈₉ Q₂₉₀ Q₂₉₁ Q₂₉₂ Q₂₉₃ Q₂₉₄ Q₂₉₅ Q₂₉₆ Q₂₉₇ Q₂₉₈ Q₂₉₉ Q₃₀₀ Q₃₀₁ Q₃₀₂ Q₃₀₃ Q₃₀₄ Q₃₀₅ Q₃₀₆ Q₃₀₇ Q₃₀₈ Q₃₀₉ Q₃₁₀ Q₃₁₁ Q₃₁₂ Q₃₁₃ Q₃₁₄ Q₃₁₅ Q₃₁₆ Q₃₁₇ Q₃₁₈ Q₃₁₉ Q₃₂₀ Q₃₂₁ Q₃₂₂ Q₃₂₃ Q₃₂₄ Q₃₂₅ Q₃₂₆ Q₃₂₇ Q₃₂₈ Q₃₂₉ Q₃₃₀ Q₃₃₁ Q₃₃₂ Q₃₃₃ Q₃₃₄ Q₃₃₅ Q₃₃₆ Q₃₃₇ Q₃₃₈ Q₃₃₉ Q₃₄₀ Q₃₄₁ Q₃₄₂ Q₃₄₃ Q₃₄₄ Q₃₄₅ Q₃₄₆ Q₃₄₇ Q₃₄₈ Q₃₄₉ Q₃₅₀ Q₃₅₁ Q₃₅₂ Q₃₅₃ Q₃₅₄ Q₃₅₅ Q₃₅₆ Q₃₅₇ Q₃₅₈ Q₃₅₉ Q₃₆₀ Q₃₆₁ Q₃₆₂ Q₃₆₃ Q₃₆₄ Q₃₆₅ Q₃₆₆ Q₃₆₇ Q₃₆₈ Q₃₆₉ Q₃₇₀ Q₃₇₁ Q₃₇₂ Q₃₇₃ Q₃₇₄ Q₃₇₅ Q₃₇₆ Q₃₇₇ Q₃₇₈ Q₃₇₉ Q₃₈₀ Q₃₈₁ Q₃₈₂ Q₃₈₃ Q₃₈₄ Q₃₈₅ Q₃₈₆ Q₃₈₇ Q₃₈₈ Q₃₈₉ Q₃₉₀ Q₃₉₁ Q₃₉₂ Q₃₉₃ Q₃₉₄ Q₃₉₅ Q₃₉₆ Q₃₉₇ Q₃₉₈ Q₃₉₉ Q₄₀₀ Q₄₀₁ Q₄₀₂ Q₄₀₃ Q₄₀₄ Q₄₀₅ Q₄₀₆ Q₄₀₇ Q₄₀₈ Q₄₀₉ Q₄₁₀ Q₄₁₁ Q₄₁₂ Q₄₁₃ Q₄₁₄ Q₄₁₅ Q₄₁₆ Q₄₁₇ Q₄₁₈ Q₄₁₉ Q₄₂₀ 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Afterload Workspace of CH44-2, using Chaitin method with Weighted results

Thursday, March 7, 2000 4:17 PM

FIG. 23D (cot'd)

Alignment WorkspacE of CHIEF-2, using Crossed Hairs with Weighted Average

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174	Alignment Workspace of ChR2, using Chital method with Weighted residue weight table.
150	FB8-171
150	FB8-172
150	FB8-173
150	FB8-174
150	FB8-175
150	FB8-176
150	FB8-177
150	FB8-178
150	FB8-179
150	FB8-180
150	FB8-181
150	FB8-182
150	FB8-183
150	FB8-184
150	FB8-185
150	FB8-186
150	FB8-187
150	FB8-188
150	FB8-189
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150	FB8-227
150	FB8-228
150	FB8-229
150	FB8-230

FIG 23D (cot'd)

Alignment Workspaces of CHRA-3, using Cluster method with Weighted Metrics

Alignment Workbooks of CHP4.5

FIG. 23D (cot'd)

FIG. 23D (cot'd)